

Anti-MERTK antibody [EPR17534-139] - BSA and Azide free ab250715

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [9 Images](#)

Overview

Product name	Anti-MERTK antibody [EPR17534-139] - BSA and Azide free
Description	Rabbit monoclonal [EPR17534-139] to MERTK - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, IHC-P, IHC-Fr, WB Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: NIH/3T3 cell lysate; Mouse spleen and liver tissue lysate. IHC-P: Mouse liver and spleen tissue. IP: Mouse spleen tissue lysate. IHC-Fr: Mouse frozen spleen and liver tissue sections.
General notes	<p>ab250715 is the carrier-free version of ab184086.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17534-139
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250715 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 110 kDa.

Application notes Is unsuitable for Flow Cyt.

Target

Function	In case of filovirus infection, seems to function as a cell entry factor.
Tissue specificity	Not expressed in normal B- and T-lymphocytes but is expressed in numerous neoplastic B- and T-cell lines.
Involvement in disease	Defects in MERTK are the cause of retinitis pigmentosa type 38 (RP38) [MIM:613862]. RP38 is a retinal dystrophy belonging to the group of pigmentary retinopathies. Retinitis pigmentosa is characterized by retinal pigment deposits visible on fundus examination and primary loss of rod photoreceptor cells followed by secondary loss of cone photoreceptors. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL/UFO subfamily. Contains 2 fibronectin type-III domains.

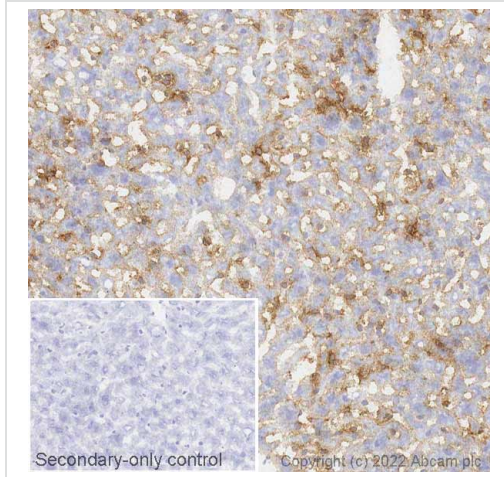
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

Cellular localization

Membrane.

Images

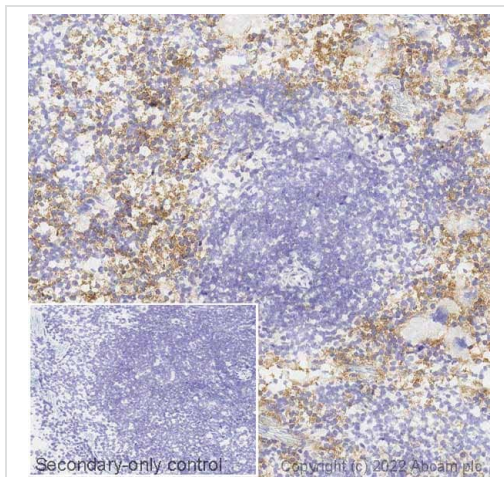


Immunohistochemistry (Frozen sections) - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)
Lab

IHC image of MERTK staining in a section of frozen mouse normal liver performed on a Leica Biosystems BOND® RX instrument using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with [ab184086](#), 0.5ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

This data was developed using [ab184086](#), the same antibody clone in a different buffer formulation.

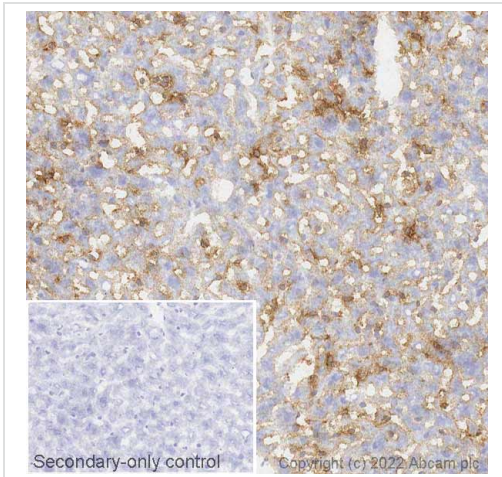


Immunohistochemistry (Frozen sections) - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)
Lab

IHC image of MERTK staining in a section of frozen mouse normal spleen performed on a Leica Biosystems BOND® RX instrument using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with [ab184086](#), 0.1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

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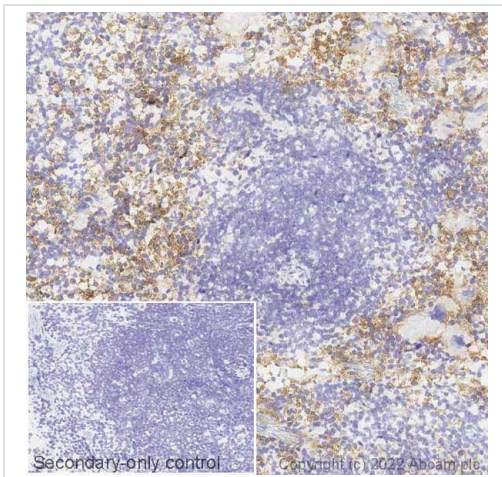


Immunohistochemistry (Frozen sections) - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)
Lab

IHC image of MERTK staining in a section of frozen mouse normal liver performed on a Leica Biosystems BOND® RX instrument using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with **ab184086**, 0.5ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

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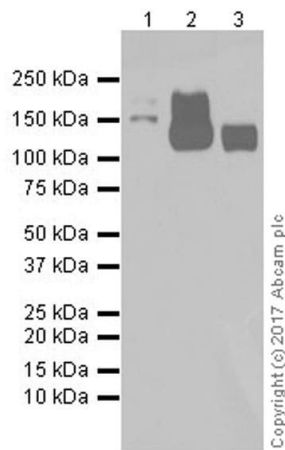


Immunohistochemistry (Frozen sections) - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)
Lab

IHC image of MERTK staining in a section of frozen mouse normal spleen performed on a Leica Biosystems BOND® RX instrument using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with **ab184086**, 0.1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

This data was developed using **ab184086**, the same antibody clone in a different buffer formulation.



Western blot - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)

All lanes : Anti-MERTK antibody [EPR17534-139] ([ab184086](#)) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

Lane 2 : Mouse spleen tissue lysate

Lane 3 : Mouse liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 110 kDa

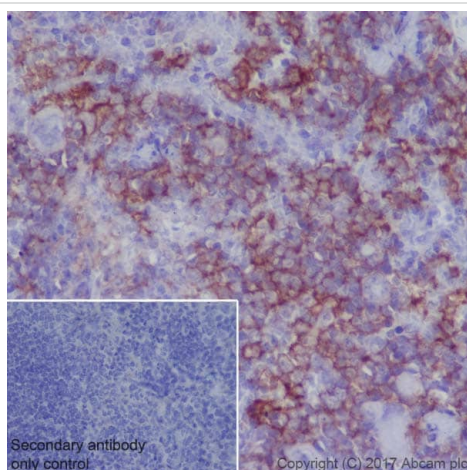
Observed band size: 110-140,180-210 kDa

Exposure time: 3 minutes

This data was developed using [ab184086](#), the same antibody clone in a different buffer formulation.

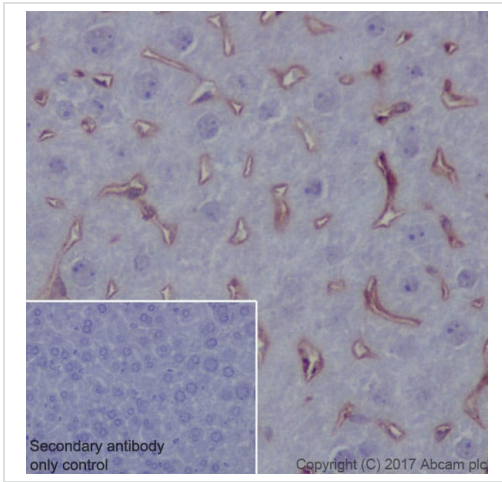
Blocking and dilution buffer: 5% NFD/MTBST.

The expression profile observed is consistent with what has been described in the literature (PMID: 17047157).



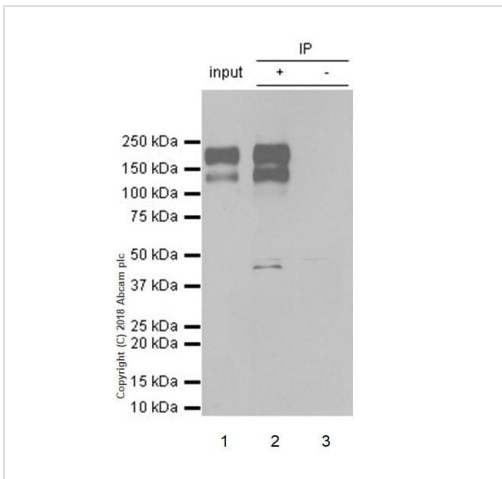
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)

This data was developed using [ab184086](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling MERTK with [ab184086](#) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Membranous staining on mouse spleen (PMID: 19631584) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)

This data was developed using **ab184086**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling MERTK with **ab184086** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Positive staining on hepatic sinusoids of mouse liver (PMID: 23799121) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-MERTK antibody [EPR17534-139] - BSA and Azide free (ab250715)

This data was developed using **ab184086**, the same antibody clone in a different buffer formulation.

MERTK was immunoprecipitated from 10 µg of mouse spleen tissue lysate with **ab184086** at 1/40 dilution. Western blot was performed from the immunoprecipitate using **ab184086** at 1/1000 dilution. Secondary used is VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at a 1/10,000 dilution.

Lane 1: Mouse spleen tissue lysate, 10 µg (input).

Lane 2: **ab184086** IP in mouse spleen tissue lysate (+)

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab184086** in mouse spleen lysate.

b Blocking and dilution buffer: 5% NFD/MBST.

Exposure time: 5 seconds

The molecular masses observed are consistent with what has been described in the literature. The band at approximately 50 kDa likely represents a cleavage fragment (PMID: 17047157, 15673687).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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