

Product datasheet

# Anti-MERTK antibody [Y323] - Low endotoxin, Azide free ab176887

Recombinant RabMAb

1 References 3 Images

Overview

<b>Product name</b>	Anti-MERTK antibody [Y323] - Low endotoxin, Azide free
<b>Description</b>	Rabbit monoclonal [Y323] to MERTK - Low endotoxin, Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Blocking, WB, IP, IHC-P <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>General notes</b>	<p>The formulation and the concentration of this product is compatible for metal-conjugation for <a href="#">mass cytometry</a> (CyTOF®).</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Y323
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab176887** 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
Blocking		Use at an assay dependent concentration. PubMed: 19204785
WB		Use at an assay dependent concentration. Detects a band of approximately 180 kDa.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> .

**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

**Function** In case of filovirus infection, seems to function as a cell entry factor.

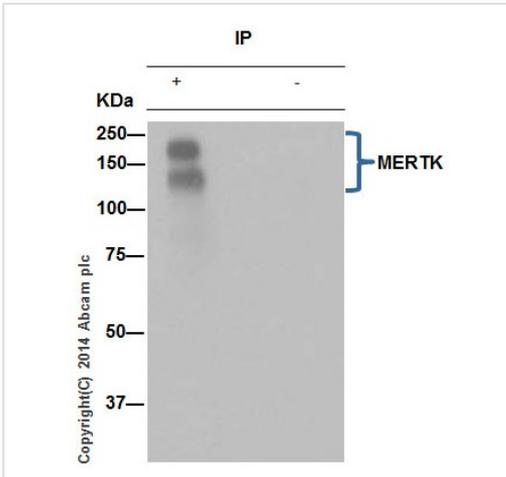
**Tissue specificity** Not expressed in normal B- and T-lymphocytes but is expressed in numerous neoplastic B- and T-cell lines.

**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



Immunoprecipitation - Anti-MERTK antibody [Y323] - Low endotoxin, Azide free (ab176887)

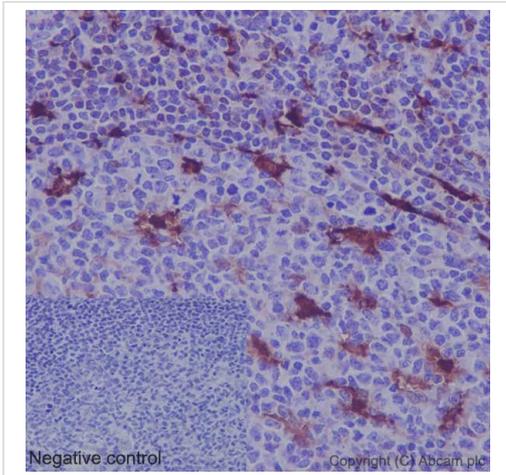
**Lane 1:** [ab52968](#) (purified) at 1/20 immunoprecipitating MERTK in HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate.

**Lane 2** - PBS.

For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking/Dilution buffer and concentration: 5% NFD/MTBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab52968](#)).



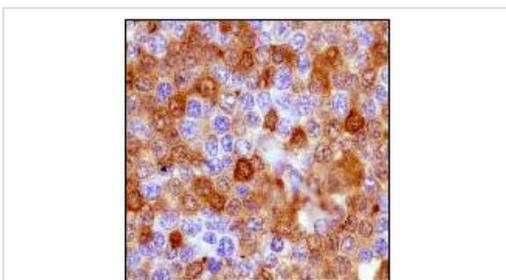
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MERTK antibody [Y323] - Low endotoxin, Azide free (ab176887)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labeling MERTK with purified [ab52968](#) at 1/500.

Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Counterstained with hematoxylin.

Negative control using PBS instead of primary antibody (Inset).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab52968](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MERTK antibody [Y323] - Low endotoxin, Azide free (ab176887)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lymphoma tissue labeling MERTK with unpurified [ab52968](#) at a 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab52968](#)).

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