

Product datasheet

Anti-ITK/EMT antibody [Y402] ab32507

Recombinant **RabMAb**

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Overview

Product name	Anti-ITK/EMT antibody [Y402]
Description	Rabbit monoclonal [Y402] to ITK/EMT
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt, ICC/IF or IHC
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat whole cell lysate (ab7899).
General notes	<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.21% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	Y402
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32507 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

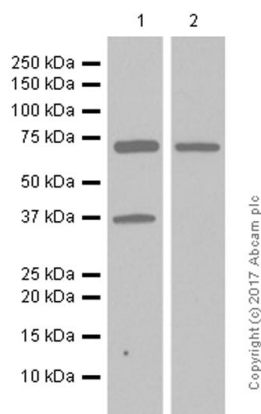
Application	Abreviews	Notes
WB		1/10000. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa). For unpurified use at 1/1000.
IP		1/20. For unpurified use at 1/50.

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

Target

Function	Plays a role in T-cell proliferation and differentiation.
Tissue specificity	T-cell lines and natural killer cell lines.
Involvement in disease	Defects in ITK are the cause of lymphoproliferative syndrome EBV-associated autosomal type 1 (LPSA1) [MIM:613011]. LPSA1 is a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus (EBV). Inadequate immune response to EBV can have a fatal outcome. Clinical features include splenomegaly, lymphadenopathy, anemia, thrombocytopenia, pancytopenia, recurrent infections. There is an increased risk for lymphoma.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC subfamily. Contains 1 Btk-type zinc finger. Contains 1 PH domain. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
Cellular localization	Cell membrane. Localizes to cell surface receptors in the plasma membrane after stimulation with respective receptors (TCR, CD28, CD2) in T-cells.

Images



Western blot - Anti-ITK/EMT antibody [Y402]
(ab32507)

Lane 1 : Anti-ITK/EMT antibody [Y402] (ab32507) at 1/2000 dilution (purified)

Lane 2 : Anti-ITK/EMT antibody [Y402] (ab32507) at 1/10000 dilution (purified)

All lanes : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysates

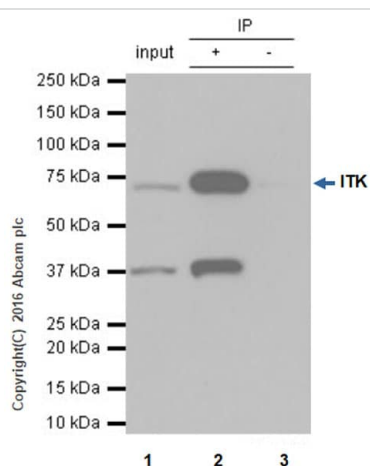
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 72 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Immunoprecipitation - Anti-ITK/EMT antibody [Y402]
(ab32507)

ab32507 (purified) at 1:20 dilution (1.0µg) immunoprecipitating ITK/EMT in Jurkat whole cell lysate.

Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate, 10µg

Lane 2 (+): ab32507 & Jurkat whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab172638** in Jurkat whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Anti-ITK/EMT antibody [Y402] (ab32507) at 1/1000 dilution
(unpurified) + Jurkat cell lysate

Predicted band size: 72 kDa

Observed band size: 72 kDa

Western blot - Anti-ITK/EMT antibody [Y402]
(ab32507)

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

Anti-ITK/EMT antibody [Y402] (ab32507)

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

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