

Anti-MERTK antibody [Y323] ab52968

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-MERTK抗体[Y323]
描述	兔单克隆抗体[Y323] to MERTK
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P, IHC-Fr 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human MERTK aa 1-100 (N terminal). The exact sequence is proprietary.
阳性对照	WB: A172, HEK-293 and K562 cell lysate. ild-type HAP1 whole cell lysate IHC-P: Human tonsil and lymphoma tissues. IP: MERTK IP in HEK-293 cell lysate. IHC-Fr: Human spleen tissue sections.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA

纯度	Protein A purified
克隆	单克隆
克隆编号	Y323
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab52968于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

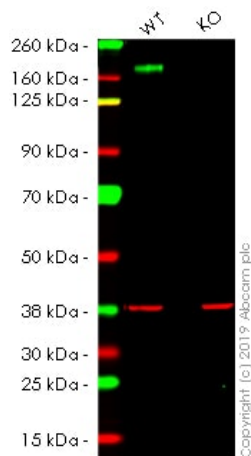
应用	Ab评论	说明
WB	★★★★★ (1)	1/2000. Detects a band of approximately 180 kDa. For unpurified use at 1/500.
IP		1/20. For unpurified use at 1/50.
IHC-P	★★★★☆ (3)	1/1000 - 1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .
IHC-Fr		Use at an assay dependent concentration.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能	In case of filovirus infection, seems to function as a cell entry factor.
组织特异性	Not expressed in normal B- and T-lymphocytes but is expressed in numerous neoplastic B- and T-cell lines.
疾病相关	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.
序列相似性	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.
细胞定位	Membrane.

图片



Western blot - Anti-MERTK antibody [Y323]
(ab52968)

All lanes : Anti-MERTK antibody [Y323] (ab52968) at 1/500 dilution

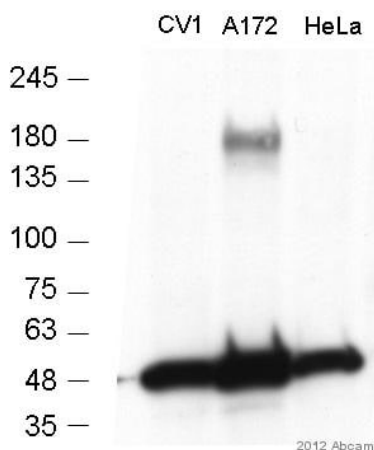
Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : MERTK knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Lanes 1 - 2: Merged signal (red and green). Green - ab52968 observed at 110 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab52968 was shown to specifically react with MERTK in wild-type HAP1 cells as signal was lost in MERTK knockout cells. Wild-type and MERTK knockout samples were subjected to SDS-PAGE. The membrane was blocked with 0. Ab52968 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-MERTK antibody [Y323]
(ab52968)

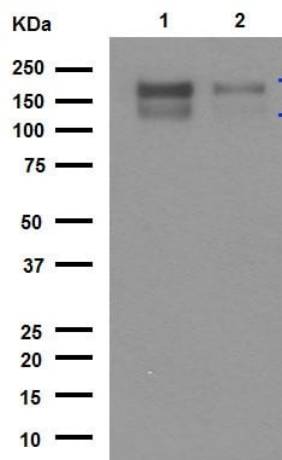
ab52968 used at a 1/200 dilution, 18 hours at 4°C, 5% BSA in Tween PBS.

Positive cell line: A172

Negative cell lines: CV1 and HeLa.

Secondary used is a goat anti-rabbit polyclonal-HRP at 1/10000 dilution.

Blocked with 5% milk for 1 hour at RT.



Western blot - Anti-MERTK antibody [Y323]
(ab52968)

All lanes : Anti-MERTK antibody [Y323] (ab52968) at 1/2000 dilution (purified)

Lane 1 : HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

Lane 2 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell lysate

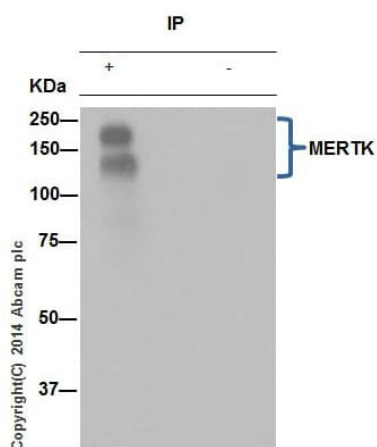
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Peroxidase-conjugated goat anti-rabbit IgG at 1/1000 dilution

Observed band size: 140-180 kDa

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.



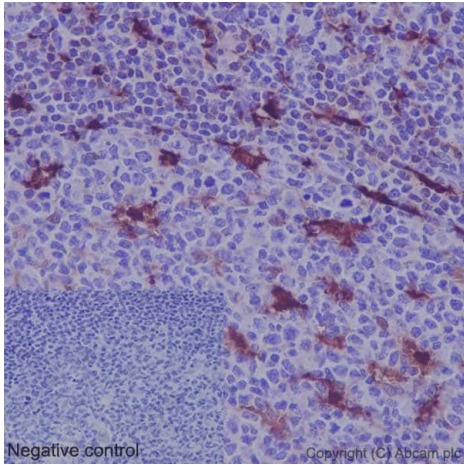
Immunoprecipitation - Anti-MERTK antibody [Y323]
(ab52968)

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% NFDM/TBST.

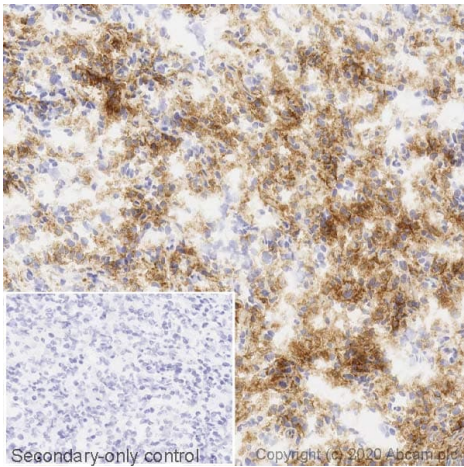


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MERTK antibody [Y323] (ab52968)

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.

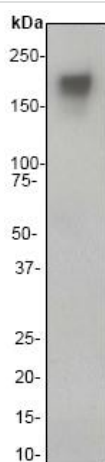
Negative control using PBS instead of primary antibody (Inset).



Immunohistochemistry (Frozen sections) - Anti-MERTK antibody [Y323] (ab52968)

IHC image of MERTK staining in a section of frozen normal human spleen performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab52968, 1/1000 dilution, 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.



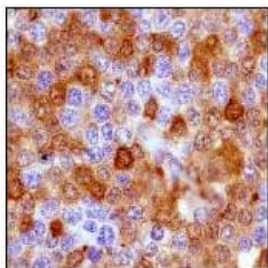
Western blot - Anti-MERTK antibody [Y323]
(ab52968)

Anti-MERTK antibody [Y323] (ab52968) at 1/1000 dilution
(unpurified) + HEK-293 (Human epithelial cell line from embryonic
kidney) cell lysate at 10 μ g

Secondary

HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Observed band size: 180 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-MERTK antibody [Y323]
(ab52968)

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

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH
9.0 before commencing with IHC staining protocol.

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-MERTK antibody [Y323] (ab52968)

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

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