

Product datasheet

Anti-ALK-1 antibody [EPR22985-108] ab263902

Recombinant RabMAb

[1 References](#) [3 Images](#)

Overview

Product name	Anti-ALK-1 antibody [EPR22985-108]
Description	Rabbit monoclonal [EPR22985-108] to ALK-1
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Recombinant Mouse ALK-1 Fc Chimera protein; Mouse lung and placenta lysates; rat lung lysates; bEnd.3 whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22985-108

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab263902 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		1/1000. Detects a band of approximately 63, 56 kDa (predicted molecular weight: 56 kDa).

Application notes

Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

Target

Function

On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for TGF-beta. May bind activin as well.

Involvement in disease

Defects in ACVRL1 are the cause of hereditary hemorrhagic telangiectasia type 2 (HHT2) [MIM:600376]; also known as Osler-Rendu-Weber syndrome 2 (ORW2). HHT2 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary, cerebral and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia.

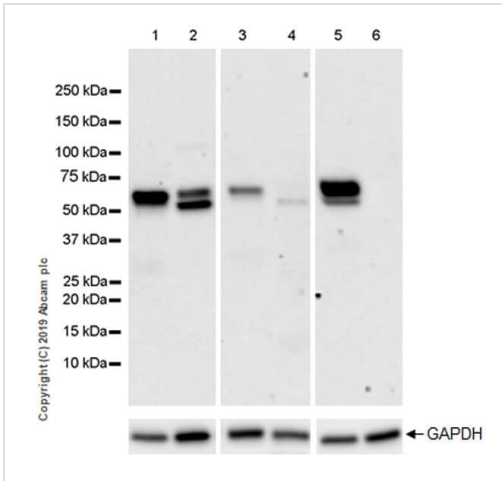
Sequence similarities

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.
Contains 1 GS domain.
Contains 1 protein kinase domain.

Cellular localization

Membrane.

Images



Western blot - Anti-ALK-1 antibody [EPR22985-108] (ab263902)

All lanes : Anti-ALK-1 antibody [EPR22985-108] (ab263902) at 1/1000 dilution

Lane 1 : Mouse lung lysate

Lane 2 : Mouse placenta lysate

Lane 3 : Rat lung lysate

Lane 4 : Rat placenta lysate

Lane 5 : bEnd.3 (mouse brain endothelioma) whole cell lysate

Lane 6 : MEF (mouse embryonic fibroblast (immortalized)) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 56 kDa

Observed band size: 56,63 kDa

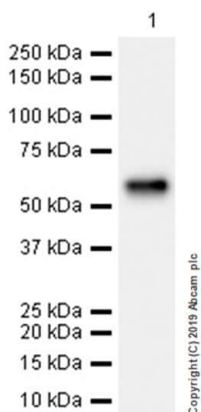
Blockinmg and dilution buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.

There are two isoforms. Different isoforms show different content in different tissues.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 11927558, 7488127).

Negative control: MEF (PMID: 11927558).



Western blot - Anti-ALK-1 antibody [EPR22985-108] (ab263902)

Anti-ALK-1 antibody [EPR22985-108] (ab263902) at 1/1000 dilution + Recombinant Mouse ALK-1 Fc Chimera protein (aa23-119), 20 ng

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 56 kDa

Blocking and dilution buffer: 5% NFD/MTBST.

Exposure time: 8 seconds.

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-ALK-1 antibody [EPR22985-108] (ab263902)

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

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