abcam

Product datasheet

Anti-ALK-1 antibody ab10179

1 Image

Overview

Product name	Anti-ALK-1 antibody
Description	Goat polyclonal to ALK-1
Host species	Goat
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human ALK-1 aa 450 to the C-terminus (Cysteine residue). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Run BLAST with Run BLAST with
Positive control	Lung and liver extracts.
General notes	Activin A receptor, type II-like 1 is a type I cell-surface receptor for the TGF-beta superfamily of ligands. ACVRL1 is most highly expressed in human placenta and lung. ACVRL1 deficiency causes hemorrhagic telangiectasia type 2 (HHT2; MIM 600376) also known as Rendu-Osler-Weber syndrome 2 (ORW2). Note: ACVRL1 is also known as ALK1 - not to be confused with the similarly named ALK (anaplastic lymphoma kinase). The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA

Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Primary antibody notes	Activin A receptor, type II-like 1 is a type I cell-surface receptor for the TGF-beta superfamily of ligands. ACVRL1 is most highly expressed in human placenta and lung. ACVRL1 deficiency causes hemorrhagic telangiectasia type 2 (HHT2; MIM 600376) also known as Rendu-Osler-Weber syndrome 2 (ORW2). Note: ACVRL1 is also known as ALK1 - not to be confused with the similarly named ALK (anaplastic lymphoma kinase).
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab10179 in the following tested applications.

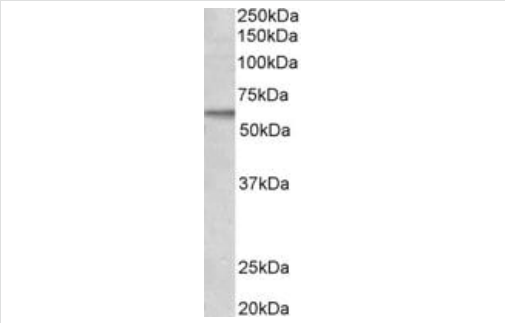
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 56 kDa). 1 hour primary incubation is recommended for this product.

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 (ab10179)

Anti-ALK-1 antibody (ab10179) at 2 µg/ml + MCF7 lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 56 kDa
Observed band size: 60 kDa

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