Product datasheet

Anti-ALK-1 antibody [EPR4074] ab108207

Overview

Product name
Anti-ALK-1 antibody [EPR4074]

Description
Rabbit monoclonal [EPR4074] to ALK-1

Host species
Rabbit

Tested applications
Suitable for: WB

Species reactivity
Reacts with: Mouse, Rat, Human

Immunogen
Synthetic peptide corresponding to Human ALK-1 aa 450 to the C-terminus.
Database link: P37023
(Peptide available as ab190772)

Positive control
JAR, Daudi or Jurkat whole cell lysate (ab7899)

General notes

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

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. Avoid freeze / thaw cycle.

Storage buffer
pH: 7.20
Preservative: 0.01% Sodium azide
 Constituents: 40% Glycerol, 0.05% BSA, 59% PBS

Purity
Protein A purified
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.

Applications

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/1000 - 1/10000. Predicted molecular weight: 56 kDa.</td>
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</tbody>
</table>
All lanes: Anti-ALK-1 antibody [EPR4074] (ab108207) at 1/1000 dilution (purified)

Lane 1: mouse brain lysate
Lane 2: mouse kidney lysate
Lane 3: rat brain lysate
Lane 4: rat kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

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

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST

All lanes: Anti-ALK-1 antibody [EPR4074] (ab108207) at 1/1000 dilution (purified)

Lane 1: JAR cell lysate
Lane 2: Daudi cell lysate
Lane 3: Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

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

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST
All lanes: Anti-ALK-1 antibody [EPR4074] (ab108207) at 1/1000 dilution (unpurified)

Lane 1: JAR cell lysate
Lane 2: Daudi cell lysate
Lane 3: Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 56 kDa

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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