

Anti-ALK1 Antibody

Rabbit polyclonal antibody to ALK1 Catalog # AP59475

Specification

Anti-ALK1 Antibody - Product Information

Application WB, IF/IC, IHC Primary Accession P37023

Other Accession P37023
Other Accession Q61288

Reactivity Human, Mouse, Rat, Pig, Bovine, Dog

Host Rabbit
Clonality Polyclonal
Calculated MW 56124

Anti-ALK1 Antibody - Additional Information

Gene ID 94

Other Names

ACVRLK1; ALK1; Serine/threonine-protein kinase receptor R3; SKR3; Activin receptor-like kinase 1; ALK-1; TGF-B superfamily receptor type I; TSR-I

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ALK1. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-ALK1 Antibody - Protein Information

Name ACVRL1

Synonyms ACVRLK1, ALK1

Function

Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal blood vessel development. 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. May bind activin as well.

Cellular Location

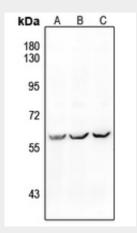
Cell membrane; Single-pass type I membrane protein

Anti-ALK1 Antibody - Protocols

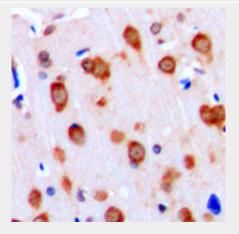
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

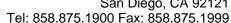
Anti-ALK1 Antibody - Images



Western blot analysis of ALK1 expression in MCF7 (A), H1792 (B), A549 (C) whole cell lysates.

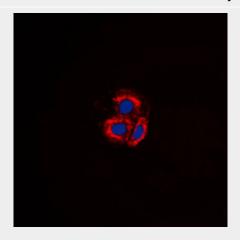


Immunohistochemical analysis of ALK1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature





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.



Immunofluorescent analysis of ALK1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Anti-ALK1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ALK1. The exact sequence is proprietary.