


Product datasheet

Anti-Activin Receptor Type IA antibody ab117422

3 Images

Overview

Product name	Anti-Activin Receptor Type IA antibody
Description	Rabbit polyclonal to Activin Receptor Type IA
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to 15 amino acids from near the N terminal of Human Activin Receptor Type IA (NP_001096.1).
Positive control	Human adrenal and Human brain (cortex) tissues; Human placenta tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab117422** in the following tested applications.

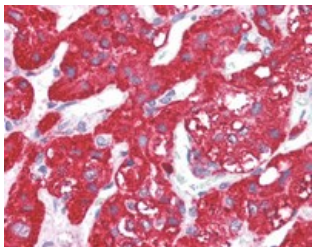
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 57 kDa.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

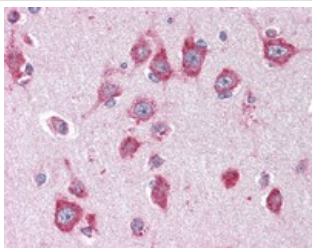
Function	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin. May be involved for left-right pattern formation during embryogenesis.
Tissue specificity	Expressed in normal parenchymal cells, endothelial cells, fibroblasts and tumor-derived epithelial cells.
Involvement in disease	Defects in ACVR1 are a cause of fibrodysplasia ossificans progressiva (FOP) [MIM:135100]. FOP is a rare autosomal dominant disorder of skeletal malformations and progressive extraskeletal ossification. Heterotopic ossification in FOP begins in childhood and can be induced by trauma or may occur without warning. Bone formation is episodic and progressive, leading to extra-articular ankylosis of all major joints of the axial and appendicular skeleton, rendering movement impossible.
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



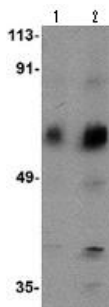
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Activin Receptor Type IA antibody (ab117422)

ab117422, at 5 ug/ml, staining Activin Receptor Type IA in Formalin-fixed, Paraffin-embedded Human adrenal tissue by Immunohistochemistry followed by biotinylated secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Activin Receptor Type IA antibody (ab117422)

ab117422, at 5 ug/ml, staining Activin Receptor Type IA in Formalin-fixed, Paraffin-embedded Human brain cortex tissue by Immunohistochemistry followed by biotinylated secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Western blot - Anti-Activin Receptor Type IA antibody (ab117422)

Lane 1 : Anti-Activin Receptor Type IA antibody (ab117422) at 1 µg/ml

Lane 2 : Anti-Activin Receptor Type IA antibody (ab117422) at 2 µg/ml

Lane 1 : Human placenta tissue lysate

Lane 2 : Human placenta tissue lysate

Predicted band size : 57 kDa

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

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