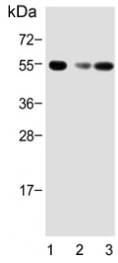
Activin receptor type-1B Antibody (F54951)

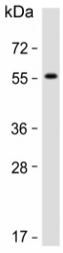
Catalog No.	Formulation	Size
F54951-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54951-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

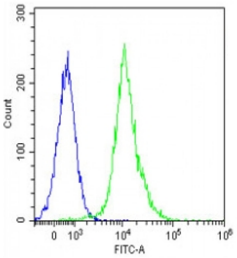
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P36896
Applications	Western blot: 1:500-1:1000 Flow cytometry: 1:25 (1x10e6 cells)
Limitations	This Activin receptor type-1B antibody is available for research use only.



Western blot testing of 1) human brain, 2) mouse brain and 3) rat brain tissue lysate with Activin receptor type-1B antibody. Predicted molecular weight ~57 kDa.



Western blot testing of human liver tissue lysate with Activin receptor type-1B antibody. Predicted molecular weight ~57 kDa.



Flow cytometry testing of fixed and permeabilized human Jurkat cells with Activin receptor type-1B antibody; Blue=isotype control, Green= Activin receptor type-1B antibody.

Description

Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with a cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling, and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. The gene for ACVR1B (activin A type IB receptor) is composed of 11 exons. Alternative splicing and alternative polyadenylation result in 3 fully described transcript variants. The mRNA expression of variants 1, 2, and 3 is confirmed, and a potential fourth variant contains an alternative exon 8 and lacks exons 9 through 11, but its mRNA expression has not been confirmed.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Activin receptor type-1B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 39-68 from the human protein was used as the immunogen for the Activin receptor type-1B antibody.

Storage

Aliquot the Activin receptor type-1B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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