

ACVR1 Antibody / ALK2 (F54224)

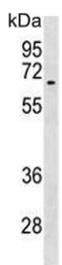
Catalog No.	Formulation	Size
F54224-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54224-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

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Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q04771
Applications	Western Blot : 1:500-1:1000
Limitations	This ACVR1 antibody is available for research use only.



Western blot testing of human HeLa cell lysate with ACVR1 antibody at 1:1000.
Predicted molecular weight ~57 kDa.



Western blot testing of human T-47D cell lysate with ACVR1 antibody at 1:1000.
Predicted molecular weight ~57 kDa.

kDa
250
150
100
75
50
37
25

Western blot testing of mouse brain lysate with ACVR1 antibody at 1:1000. Predicted molecular weight ~57 kDa.

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 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. ACVR1 (activin A type I receptor) signals a particular transcriptional response in concert with activin type II receptors.

Application Notes

Titration of the ACVR1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 85-123 from the human protein was used as the immunogen for this ACVR1 antibody.

Storage

Aliquot the ACVR1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.