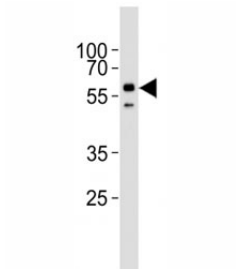
ALK2 Antibody / ACVR1 (F50787)

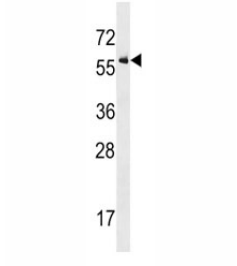
Catalog No.	Formulation	Size
F50787-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50787-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

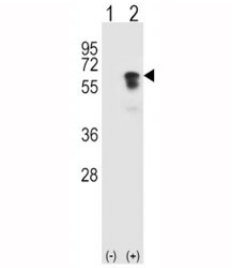
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Bovine
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q04771
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This ALK2 antibody is available for research use only.



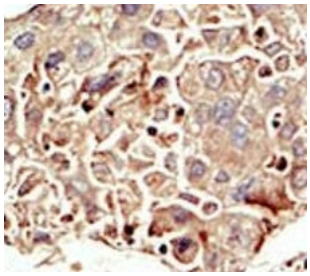
Western blot analysis of lysate from HepG2 cell line using ALK2 antibody



ALK2 antibody western blot analysis in U937 lysate



Western blot analysis of ALK2 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (2) with the ACVR1 gene.



IHC analysis of FFPE human hepatocarcinoma tissue stained with the ALK2 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 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 ALK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 132-162 from the human protein was used as the immunogen for this ALK2 antibody.

Storage

Aliquot the ALK2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.