

Anti-Activin Receptor Type IA Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

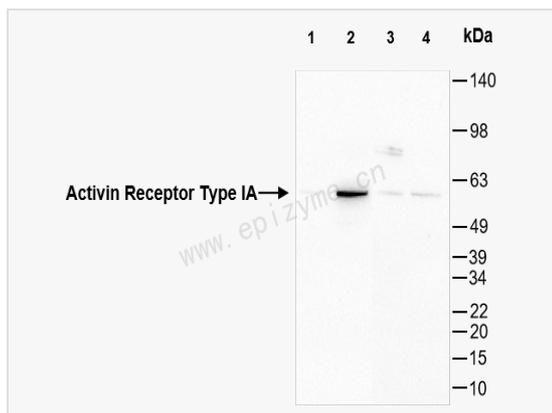
Catalog # R013517

Product Information

Application	WB, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:3,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	19K78K68
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Activin Receptor Type IA
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Activin Receptor Type IA Rabbit mAb [19K78K68] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Activin A receptor type I, Activin A receptor type II like kinase 2, Activin receptor type I, Activin receptor type-1, Activin receptor-like kinase 2, ACTR-I, ACTRI, Acvr1, ACVR1_HUMAN, ACVR1A, ACVRLK2, ALK 2, ALK-2, ALK2, FOP, Hydroxyalkyl protein kinase, Serine/threonine-protein kinase receptor R1, SKR1, TGF-B superfamily receptor type I, TGFB superfamily receptor type I, TSR-I, TSRI.
Calculated MW	Calculated MW: 57 kDa; Observed MW: 57 kDa
Uniprot ID	Q04771
Gene ID	90
Background	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. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. [provided by RefSeq, Jul 2008]
Cellular Location	Membrane.



Western Blot - Anti-Activin Receptor Type IA Rabbit mAb [19K78K68]

All lanes: R013517 at 1:3,000 dilution

Lane 1: A549 (Human lung carcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: 293T (Human embryonic kidney cell) whole cell lysates

Lane 4: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 57 kDa

Observed band size: 57 kDa

Developed using the ECL technique (Cat. No. SQ201).