

Product datasheet for **TA349252**

Activin Receptor Type IIB (ACVR2B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human fetal brain tissue IHC: 50-200 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human ACVR2B
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58 kDa
Gene Name:	activin A receptor type 2B
Database Link:	NP_001097 Entrez Gene 93 Human Q13705



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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. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.

Synonyms:

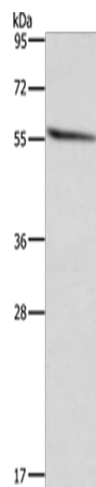
ActR-IIB; ACTRIIB; HTX4

Protein Families:

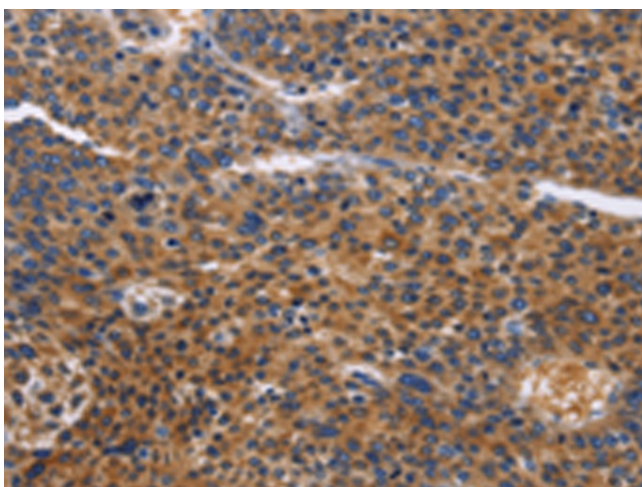
Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways:

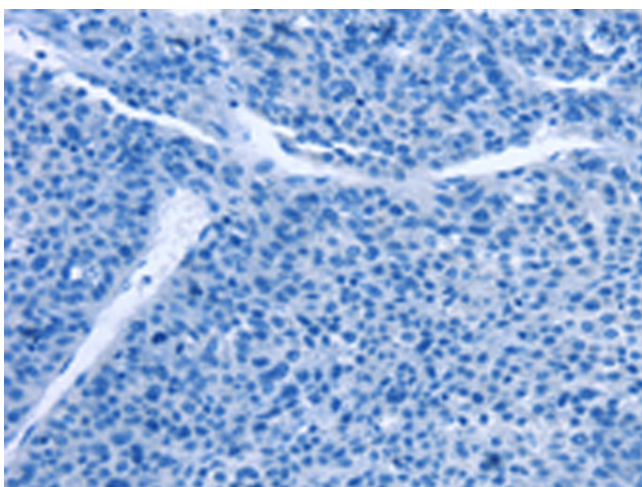
Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Product images:

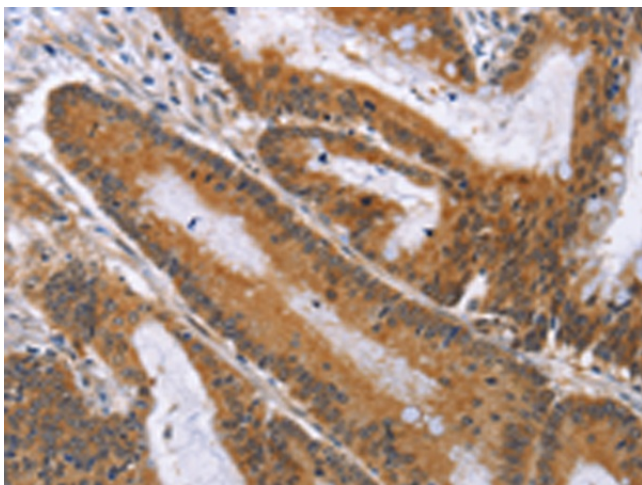
Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: Human fetal brain tissue
Primary antibody: TA349252 (ACVR2B Antibody)
at dilution 1/300
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 20 seconds



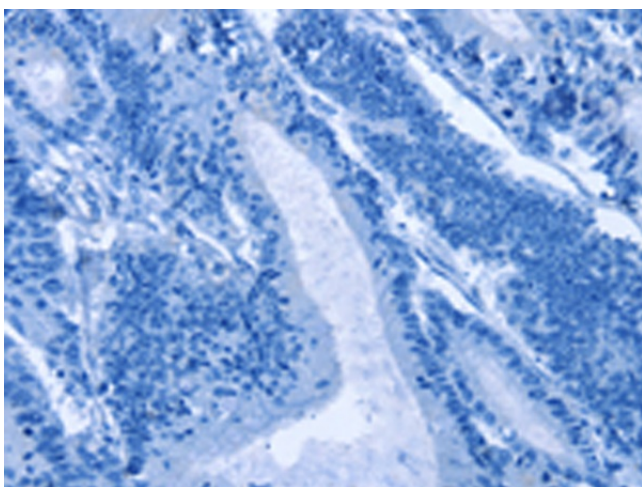
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA349252 (ACVR2B Antibody) at dilution 1/50 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA349252 (ACVR2B Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA349252 (ACVR2B Antibody) at dilution 1/50 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA349252 (ACVR2B Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: $\times 200$)