

# Product Datasheet

## Activin RIB/ALK-4 Antibody (JE38-48) NBP3-31998

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-31998**

Activin RIB/ALK-4 Antibody (JE38-48)

**Product Information**

<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	JE38-48
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	57 kDa

**Product Description**

<b>Host</b>	Rabbit
<b>Gene ID</b>	91
<b>Gene Symbol</b>	ACVR1B
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant protein within human Activin RIB/ALK-4 aa 24-126. (Uniprot: P36896)

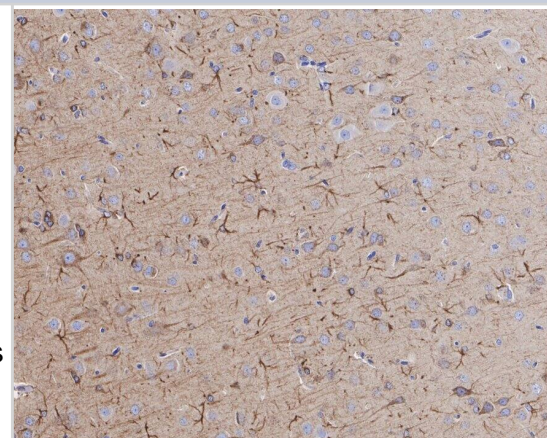
**Product Application Details**

<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Flow Cytometry 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:250, Immunohistochemistry-Paraffin 1:5000

**Images**

Immunohistochemistry: Activin RIB/ALK-4 Antibody (JE38-48) [NBP3-31998] - Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-Activin RIB/ALK-4 antibody (NBP3-31998) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-31998) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



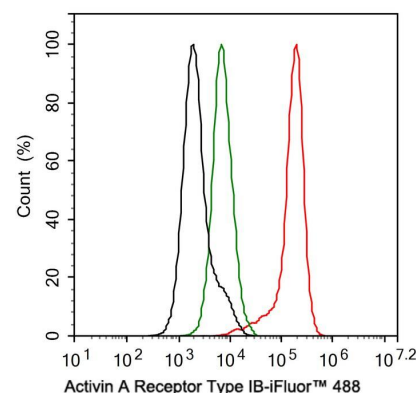
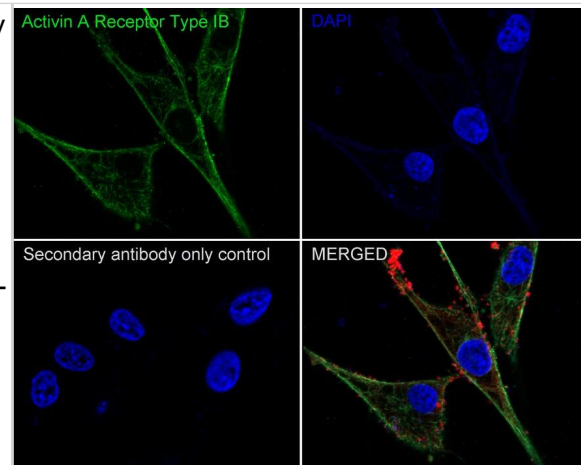
**Immunocytochemistry/ Immunofluorescence: Activin RIB/ALK-4 Antibody (JE38-48) [NBP3-31998]** - Immunocytochemistry analysis of U-87 MG cells labeling Activin RIB/ALK-4 with Rabbit anti-Activin RIB/ALK-4 antibody (NBP3-31998) at 1/250 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Activin RIB/ALK-4 antibody (NBP3-31998) at 1/250 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/200 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

**Flow Cytometry: Activin RIB/ALK-4 Antibody (JE38-48) [NBP3-31998]** - Flow cytometric analysis of U-87 MG cells labeling Activin RIB/ALK-4.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-31998, 1 µg/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).



**Western Blot: Activin RIB/ALK-4 Antibody (JE38-48) [NBP3-31998]** - Western blot analysis of Activin RIB/ALK-4 on different lysates with Rabbit anti-Activin RIB/ALK-4 antibody (NBP3-31998) at 1/1,000 dilution.

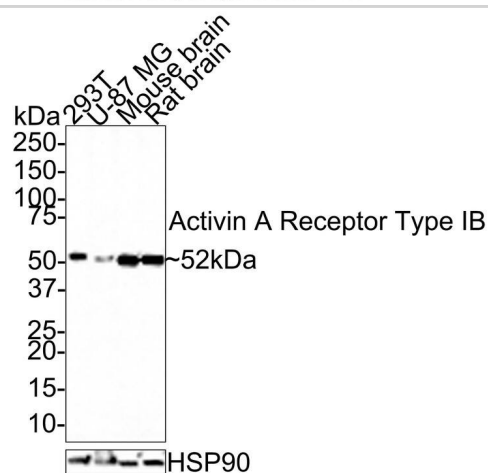
Lane 1: 293T cell lysate (15 µg/Lane)  
Lane 2: U-87 MG cell lysate (20 µg/Lane)  
Lane 3: Mouse brain tissue lysate (20 µg/Lane)  
Lane 4: Rat brain tissue lysate (20 µg/Lane)

Predicted band size: 57 kDa  
Observed band size: 52 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-31998) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:100,000 dilution was used for 1 hour at room temperature.





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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-39003PEP	Activin RIB/ALK-4 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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