

Datasheet for ABIN2745505

anti-ACVR2B antibody (Extracellular Domain)[Go to Product page](#)**2** Images

Overview

Quantity:	50 µg
Target:	ACVR2B
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant extracellular domain (ecd) of mouse activin receptor IIB.
Specificity:	Recognizes the extracellular domain of human and mouse ACTR-IIB.
Cross-Reactivity:	Human, Mouse (Murine)
Cross-Reactivity (Details):	Does not cross-react with related human proteins ActR-Ilecd, BMPR-Ilecd, BMPR-IAecd, BMPR-IBecd or ActR-Ilecd.
Purification:	Antigen affinity purified.

Target Details

Target:	ACVR2B
Alternative Name:	Activin Receptor IIB (ACVR2B Products)
Background:	Activin Receptor IIB (ACTR-IIB) is a transmembrane receptor that forms an activin receptor

Target Details

complex with activin type-1 receptors (ACVR1, ACVR1B or ACVR1c). ACTR-IIB transduces the activin signal from the cell surface to the cytoplasm and regulates therefore many physiological and pathological processes including neuronal differentiation and neuronal survival, hair follicle development and cycling, FSH production by the pituitary gland, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. Activin is also thought to have a paracrine or autocrine role in follicular development in the ovary.

UniProt: [P27040](#)

Pathways: [Hormone Transport, Cancer Immune Checkpoints](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: In PBS with 1 mg/mL BSA and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

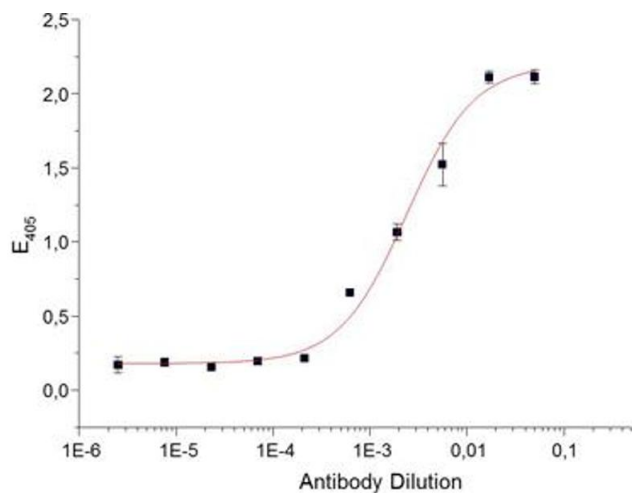
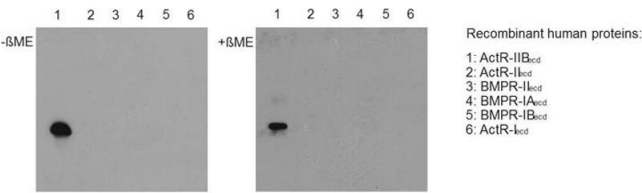
Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C
Long Term Storage: -20°C
Stable for at least 1 year after receipt when stored at -20°C.

Expiry Date: 12 months

Western Blotting

Image 1. Western blot with extracellular domains (ecd) of different related human receptors (50ng per lane) reveals that anti-Activin Receptor IIB, pAb (IG-510) (dilution 1:5000) specifically recognizes ACTR-IIB under nonreducing (-βME, left panel) and reducing (+βME; right panel) conditions, but none of the other receptor types tested.



ELISA

Image 2. ELISA detection using anti-Activin Receptor IIB, pAb (IG-510) . Wells were coated with 100μl of ACTR-IIB extracellular domain (ecd) at 2μg/ml. For detection different dilutions of anti-Activin Receptor IIB, pAb (IG-510) stock solution (500μg/ml) were applied, followed by an ALP-conjugated goat-anti-rabbit antibody.