

Human Activin RIIB Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF339

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Activin RIIB in Western blots. In this format, less than 1% cross-reactivity with recombinant human (rh) Activin RIA, rhActivin RIB, and rhActivin RIIA is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Activin RIIB Ser19-Thr134 Accession # CAA54671
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
APPLICATIONS Please Note: Optimal dilution	ons should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. Recommended Sample Concentration
Western Blot	0.1 µg/mL Recombinant Human Activin RIIB Fc Chimera (Catalog # 339-RB)
PREPARATION AND S	STORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Activin isoforms and other members of the TGF-β superfamily exert their biological effects by binding to heteromeric complexes of a type I and a type II serine-threonine kinase receptor, both of which are essential for signal transduction. Seven type I and five type II receptors, including the two type I and the two type II activin receptors, designated ActR-I(A), ActR-IB, ActR-II(B) and ActR-IIB, have been cloned from mammals. Through alternative mRNA splicing, multiple ActR-IIB isoforms can also be generated, adding to the complexity of the activin receptor system. Different activin isoforms bind with different high-affinities to the various type II isoforms. Type I activin receptors do not bind directly to activin, but will associate with the type II receptor-activin complex and initiate signal transduction. Besides the activin isoforms, ActR-II will also bind inhibin, BMP-2 and BMP-7 with lower affinities. ActR-I can also bind and form signaling complexes with the BMP-2/7-bound BMPR-II. Activin type II receptors are highly conserved. Human, mouse and rat type II activin receptors share greater than 98% amino acid sequence homology.

References:

- 1. Attisano, L. et al. (1996) Mol. and Cell Biol. 16:1066.
- 2. Woodruff, T.K. (1998) Biochem. Pharmacology 55:953.

