Anti-human Activin C Antibody

ORDERING INFORMATION

Catalog Number: AF1629

Lot Number: JHO01

Size: 100 μg

Formulation: 0.2 μm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Activin C

Immunogen: *E. coli*-derived rhActivin C (aa 237 - 352)

Ig Type: human Activin C specific goat IgG

Applications: Direct ELISA
Western blot
Immunohistochemistry

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Activin C (rhActivin C; aa 237 - 352). Human Activin C specific IgG was purified by human Activin C affinity chromatography. Activins are dimers consisting of two beta subunits. Several types of beta subunits have been described. These beta subunits can also heterodimerize with a constant alpha subunit to form Inhibins. The β_c subunit homodimerizes to form Activin C and has also been reported to heterodimerize with the β_A subunit.

Formulation

Lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human Activin C in direct ELISAs and western blots.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 μg/mL with the appropriate secondary reagents to detect human Activin C homodimers. The detection limit for rhActivin C is approximately 0.15 ng/well.

Western blot - This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect human Activin C. The detection limit for rhActivin C is approximately 5 ng/lane and 25 ng/lane under non-reducing and reducing conditions, respectively. In this format, this antibody shows approximately 10% cross-reactivity with rmActivin C and less than 1% cross-reactivity with rhActivin A, rhActivin B, rhInhibin A and rhInhibin B.

Immunohistochemistry - This antibody will detect Activin C in cells and tissues. The working dilution is 5 - 15 μg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

Optimal dilutions should be determined by each laboratory for each application.

R&D Systems, Inc.
1-800-343-7475

5/3/04