Anti-rat Notch-2 Antibody

ORDERING INFORMATION

Catalog Number: AF1190

Lot Number: IWN01

Size: 100 μg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: rat Notch-2

Immunogen: NS0-derived rrNotch-2 (aa 26 - 492)

Ig Type: rat Notch-2 specific goat IgG

Applications: Blockade of receptor-ligand interaction
Western blot
Flow cytometry
Immunohistochemistry
Direct ELISA

Preparation
Produced in goats immunized with purified, NS0-derived, recombinant rat Notch-2 (rrNotch-2; aa 26 - 492). Rat Notch-2 specific IgG was purified by rat Notch-2 affinity chromatography.

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

Endotoxin Level
< 0.1 EU per 1 μg of the antibody as determined by the LAL method.

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 neutralize receptor-ligand interaction in a functional ELISA. In direct ELISAs and Western blots, this antibody shows approximately 5% cross-reactivity with rrNotch-1 and 1% cross-reactivity with rmNotch-3.

Applications
Neutralization of receptor-ligand interaction - This antibody will block > 95% of the binding of 200 ng/mL of rrJagged/Fc to immobilized rrNotch-2/Fc (100 μL of 5 μg/mL was coated in each well) in a functional ELISA. 50% inhibition occurs at an antibody concentration of approximately 1 - 5 μg/mL.

Western blot - This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect rat Notch-2. The detection limit for rrNotch-2 is approximately 1 ng/lane and 20 ng/lane under non-reducing and reducing conditions, respectively.

Flow cytometry - This antibody has been tested on rat splenocytes. Dilute this antibody to 0.1 mg/mL and add 10 μL of the diluted solution to 1 - 2.5 x 10^5 cells in a total reaction volume not exceeding 200 μL. The binding of unlabeled antibodies may be visualized by adding stock solution of a secondary developing reagent such as goat anti-goat IgG conjugated to a fluorochrome.

Immunohistochemistry - This antibody will detect rat Notch-2 in cells and tissues. The working dilution is 2 - 15 μg/mL. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS series).

Direct ELISA - This antibody can be used at 0.5 - 1.0 μg/mL with the appropriate secondary reagents to detect rat Notch-2. The detection limit for rrNotch-2 is approximately 0.15 ng/well.

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

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1-800-343-7475