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<b>Catalog Number:</b>	GT15124	<b>Host:</b>	Goat
<b>Product Type:</b>	Affinity Purified	<b>Species Reactivity:</b>	Rat
<b>Immunogen Sequence:</b>	Purified, NS0-derived, recombinant rat Notch-2 (rrNotch-2; aa 26 - 492).	<b>Format:</b>	Liquid 1 mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose.

**Applications:** Immunohistochemistry: 15 µg/mL.  
Western Blot: 0.1 – 0.2 µg/mL  
ELISA: 0.5 - 1.0 µg/mL  
Flow Cytometry: 0.1 mg/mL

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

**Storage:** Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

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### Application Notes

#### Immunocytochemistry

This antibody can be used with the appropriate secondary reagents at the concentration of 5 - 10 µg/mL in fixed cells. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 minutes. then blocked with 0.1% Triton X-100, 10% normal donkey serum of PBS and 1% BSA at room temperature for 45 minutes. After blocking, cells were incubated with diluted primary antibody overnight at 4° C and sequentially with Rhodamine Red coupled anti-goat IgG antibody or another appropriate secondary antibody at room temperature in the dark for an hour. Between each step, cells were washed with 0.1% BSA in PBS.

#### 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.

#### 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<sup>5</sup> 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.

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**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.

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