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# Product Data Sheet

# Purified anti-mouse Notch 1

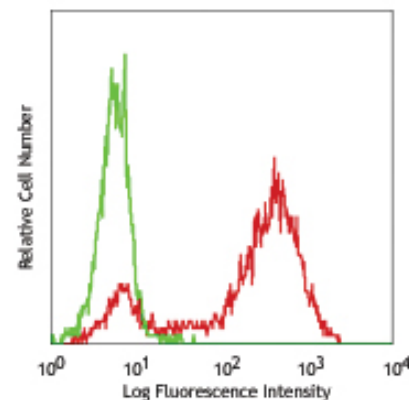| | |
|---|---|
| **Catalog # / Size:** | 130602 / 500 µg |
| **Clone:** | HMN1-12 |
| **Isotype:** | Armenian Hamster IgG |
| **Immunogen:** | Notch1-Fc fusion protein |
| **Reactivity:** | Mouse |
| **Preparation:** | The antibody was purified by affinity chromatography. |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| **Concentration:** | 0.5 mg/ml |
| **Storage:** | The antibody solution should be stored undiluted at 4°C. |



Mouse Notch-1 transfected cells stained with purified HMN1-12, followed by anti-Armenian hamster IgG PE

# Applications:

**Applications:** FC - *Quality tested*
IHC - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Moriyama Y, *et al.* 2008. *Int. Immunol.* 20:763.

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**Description:** The Notch receptors are highly conserved from invertebrates to mammals. Notch 1 and Notch 2 exhibit the greatest structural similarity among the four mammalian Notch receptors. Notch 3 has a number of structural and functional differences. The binding of Notch 3 to its ligands results in the proteolysis of Notch and movement of intracellular portions of Notch into the nucleus. This translocation triggers a series of signaling processes. Notch 3 is primarily expressed in adult arterial smooth muscle cells. Notch 3 gene mutation can cause CADASIL, an inherited early stroke syndrome.

**Antigen References:** 1. Ehebauer ME, *et al.* 2006. *Biochem. J.* 392:13.
2. Shimizu K, *et al.* 2000. *Mol. Cell. Biol.* 20:18.
3. Tanigaki K, *et al.* 2007. *Nature Immunol.* 8:4514.
4. Kraman M, *et al.* 2005. *FASEB J.* 19:1311.

**Related Products:**

| Product | Clone | Application |
|---|---|---|
| Purified Armenian Hamster IgG Isotype Ctrl | HTK888 | FC, ICC, ICFC, IF, IP, WB |
| Cell Staining Buffer | | FC, ICC, ICFC |
| RBC Lysis Buffer (10X) | | FC, ICFC |