

## Purified anti-mouse Notch 3

**Catalog # / Size:** 130501 / 50 µg  
130502 / 500 µg

**Clone:** HMN3-133

**Isotype:** Armenian Hamster IgG

**Immunogen:** Notch 3-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.

## 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 J Immunology* 20:763  
2. Ghosh S, *et al.* 2011. *J. Biol Chem.* 286:22678. PubMed.  
3. Romano RA, *et al.* 2012. *Development* 139:772. PubMed.

**Description:** The Notch receptors are highly conserved from invertebrates to mammals. While Notch1 and Notch 2 exhibit the highest 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 process. 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 Biology* 20:18  
3. Tanigaki K, *et al.* 2007. *Nature Immunol* 8:451  
4. Bellavia D, *et al.* 2008. 27:5092  
5. Louvi A, *et al.* *Dev Neurosci.* 2006. 28:5

### Related Products:

**Product**  
Purified Armenian Hamster IgG Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
HTK888

**Application**  
FC, ICC, ICFC, IF, IP, WB  
FC, ICC, ICFC  
FC, ICFC



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