

### **Notch1 Antibody**

Notch1 Antibody, Clone S253-32 Catalog # ASM10264

## **Specification**

## **Notch1 Antibody - Product Information**

Application WB
Primary Accession O01705
Other Accession NP\_032740.3
Host Mouse
Isotype IgG1
Reactivity Mouse, Rat

Clonality Monoclonal

**Description** 

Mouse Anti-Mouse Notch1 Monoclonal IgG1

### Target/Specificity

Detects >270kDa, ~120kDa and small fragments due to proteolysis. Does not cross-react with Notch 2 or Notch3.

#### **Other Names**

Neurogenic locus notch homolog protein 1 Antibody, hN1 Antibody, Translocation associated notch protein Antibody, TAN1 Antibody, TAN-1 Antibody, Motch A Antibody, mT14 Antibody, p300 Antibody, Motch Antibody, Mis6 Antibody, Neurogenic locus notch protein homolog Antibody, NICD Antibody, Notch 1 intracellular domain Antibody, Notch gene homolog 1 (Drosophila) Antibody, Notch homolog 1 Antibody, translocation-associated (Drosophila) Antibody, NOTCH Drosophila Antibody, homolog of 1 Antibody, Translocation associated notch homolog Antibody, Translocation associated notch protein TAN 1 Antibody, xotch Antibody

### **Immunogen**

Fusion protein amino acids 20-216 (extracellular N-terminus, EGF-like domains 1-5) of mouse Notch1

### **Purification**

Protein G Purified

Storage -20°C

**Storage Buffer** 

PBS pH7.4, 50% glycerol, 0.09% sodium azide

# Shipping Temperature

Blue Ice or 4ºC

**Certificate of Analysis** 

1  $\mu$ g/ml of SMC-430 was sufficient for detection of Notch1 in 20  $\mu$ g of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

## **Cellular Localization**

Cell Membrane | Nucleus

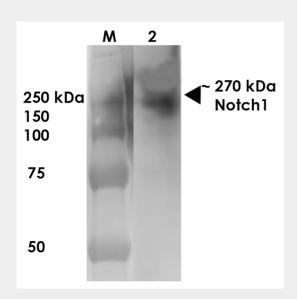
### **Notch1 Antibody - Protocols**



Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Notch1 Antibody - Images



Western Blot analysis of Rat Brain Membrane showing detection of  $\sim\!\!270$  kDa Notch1 protein using Mouse Anti-Notch1 Monoclonal Antibody, Clone N253/32 (ASM10264). Lane 1: MW Ladder. Lane 2: Rat Brain Membrane (10  $\mu g$ ). Load: 10  $\mu g$ . Block: 5% milk. Primary Antibody: Mouse Anti-Notch1 Monoclonal Antibody (ASM10264) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: TMB solution for 10 min at RT. Predicted/Observed Size:  $\sim\!\!270$  kDa.

## Notch1 Antibody - Background

Notch is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase (S1 cleavage) in the trans-golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved (S2 cleavage) by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called Notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin-dependent gamma-secretase (S3 cleavage) to release the intracellular domain (NICD) from the membrane.

## **Notch1 Antibody - References**

- 1. Swiatek P.J., et al. (1994) Genes Dev. 8: 707-719.
- 2. Simpson P. (1994) The Notch Receptors. Austin, TX: R.G. Landes Company.
- 3. Lindsell C.E., et al. (1995) Cell 80: 909-917.
- 4. Uyttendaele H., et al. (1996) Development 122: 2251-2259.
- 5. Girard L., et al. (1996) Genes Dev. 10: 1930-1944.