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# Rabbit Anti-Manic Fringe antibody

SL12390R

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| **Product Name:** | Manic Fringe |
| **Chinese Name:** | 狂躁基因同源蛋白MFNG抗体 |
| **Alias:** | 3-N-acetylglucosaminyltransferase manic fringe; Beta-1; Beta-1,3-N-acetylglucosaminyltransferase manic fringe; MFNG; MFNG_HUMAN; O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Cow,Horse,Sheep,Chimpanzee, |
| **Applications:** | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 36kDa |
| **Cellular localization:** | cytoplasmicThe cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human Manic Fringe/MFNG:221-321/321 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | Three mammalian fringe family members, Manic, Radical and Lunatic Fringe, have been identified as proteins related to Drosophila fringe, a protein involved in development. Fringe proteins act upstream of the Notch signaling pathway and are involved in boundary determination during segmentation. Each mammalian fringe |

displays different patterns of expression, though all are expressed in the mouse embryo as well as in many adult tissues. Radical fringe plays a key role in the development of the limb bud. Lunatic fringe is required for normal somite segmentation and patterning and is thought to be a target of the molecular clock. Manic fringe, also involved in somatic development, has been shown to render mouse NIH/3T3 cells tumorigenic in SCID mice.

**Function:**
Glycosyltransferase involved in the elongation of O-linked ligands to activate Notch signaling. Possesses fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity.

**Subcellular Location:**
Golgi apparatus membrane.

**Similarity:**
Belongs to the glycosyltransferase 31 family.

**SWISS:**
O00587

**Gene ID:**
4242

**Database links:**

Entrez Gene: 4242 Human

Entrez Gene: 17305 Mouse

Entrez Gene: 315119 Rat

Omim: 602577 Human

SwissProt: O00587 Human

SwissProt: O09008 Mouse

Unigene: 517603 Human

Unigene: 149235 Mouse

Unigene: 102109 Rat

**Important Note:**
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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