## Immunotag<sup>™</sup> NPTX2 Polyclonal Antibody

## **Antibody Specification**

| Catalog No.             | ITN0977  |
|-------------------------|--|
| Product<br>Description  | Immunotag <sup>™</sup> NPTX2 Polyclonal Antibody   |
| Size                    | 50 μg, 100 μg  |
| Conjugation             | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                      |
| IMPORTANT NOTE          | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein          | NPTX2  |
| Clonality               | Polyclonal   |
| Storage/Stability       | -20°C/1 year   |
| Application             | WB,ELISA   |
| Recommended<br>Dilution | WB 1:500-2000 ELISA 1:5000-20000   |
| Concentration           | 1 mg/ml  |
| Reactive Species        | Human,Rat,Mouse  |
| Host Species            | Rabbit   |
| Immunogen               | Synthesized peptide derived from human protein, at AA range: 130-210   |
| Specificity             | NPTX2 Polyclonal Antibody detects endogenous levels of protein.  |
| Purification            | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen   |
| Form                    | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.   |
| Gene Name               | NPTX2  |
| Accession No.           | P47972 O70340 P97738   |

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| Description                 | neuronal pentraxin 2(NPTX2) Homo sapiens This gene encodes a member of the family of<br>neuronal petraxins, synaptic proteins that are related to C-reactive protein. This protein<br>is involved in excitatory synapse formation. It also plays a role in clustering of alpha-<br>amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)-type glutamate receptors at<br>established synapses, resulting in non-apoptotic cell death of dopaminergic nerve cells.<br>Up-regulation of this gene in Parkinson disease (PD) tissues suggests that the protein<br>may be involved in the pathology of PD. [provided by RefSeq, Feb 2009], |
|-----------------------------|---|
| Protein Expression          | Brain,  |
| Subcellular<br>Localization | extracellular region,   |
| Protein Function            | cofactor:Binds 2 calcium ions per subunit.,function:Likely to play role in the modification<br>of cellular properties that underlie long-term plasticity. Binds to agar matrix in a calcium-<br>dependent manner.,similarity:Contains 1 pentaxin domain.,tissue specificity:Brain,<br>pancreas, liver, heart and skeletal muscle. Highest levels are seen in the testis.,   |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.  |

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