

**RABBIT ANTI-NEURONAL PENTRAXIN 2
AFFINITY PURIFIED
POLYCLONAL ANTIBODY****CATALOG NUMBER:** AB15520**LOT NUMBER:** Xxxxxxx**QUANTITY:** 50 µg**CONCENTRATION:** 1 mg/mL**SPECIFICITY:** Neuronal pentraxin 2 (NPX2).**BACKGROUND:**

Neuronal Pentraxins: A new family of putative integral membrane pentraxins or Neuronal pentraxins identified through interaction with a presynaptic snake venom toxin taipoxin. NPX1, NPX2 and NPXR (Neuronal Pentraxin Receptor), the three neuronal pentraxins represent a novel neuronal uptake pathway that may function during synapse formation and remodeling. The N-terminal half of neuronal pentraxins are 20-30% identical to previously identified pentraxins (CRP and SAP), the three neuronal pentraxins are 50% identical to each other and are significantly larger than the classical pentraxins (>50 versus 30kDa), suggesting that they may have additional novel functions.

NPX2 (Neuronal Pentraxin 2), 429aa in mouse, 432 in rat and 431 in human (chr 7q21), mainly expressed in brain, pancreas, liver and testis. It is likely to play role in the modification of cellular properties that underlie long-term plasticity. NPX1, NPX2 has potential N-linked glycosylation sites.

IMMUNOGEN:

Synthetic peptide near the N-terminus of mouse NPX2

APPLICATIONS:

Western blot: 1-10 µg/mL using ECL.

Immunohistochemistry: Not tested. It is recommended that the antibody be tried at 2-20 µg/mL

ELISA: 0.5-1 µg/mL using control peptide.

Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES:

Mouse. Other species have not yet been tested. The immunogen sequence is 100% conserved in rat, and 94% in human NPX2 and 82% in guinea pig apexin precursor P50.

FORMAT:

Affinity purified immunoglobulin.

PRESENTATION:

Liquid in PBS, with 0.1%BSA and 0.05% sodium azide.

STORAGE/HANDLING:

Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.

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