

**RABBIT ANTI-RAT DOPAMINE RECEPTOR D2L
AFFINITY PURIFIED
POLYCLONAL ANTIBODY****CATALOG NUMBER:** AB1792P**LOT NUMBER:****QUANTITY:** 50 µg**CONCENTRATION:** 1 mg/mL

SPECIFICITY: Specific for Dopamine Receptor D2 long form. Dopamine D2 receptor is known to exist in the short (D2S) and the long (D2L) forms that are encoded by splice variants of a single gene and differ only by the presence of an additional 29 amino acid in the intracellular, cytoplasmic loop 3 (1). D2L receptor is a 446 aa, G-protein coupled and transmembrane receptor protein (2) The 27 aa rat D2RL peptide used for immunization was found only in the D2 long form and there is no significant homology with other dopamine receptors (D1, D2 short, and D3-D5).

IMMUNOGEN: A 27 amino acid peptide sequence from the rat D2 long form within the cytoplasmic loop #3.

APPLICATIONS: Western blot: 1-10 µg/mL (Chemiluminescence technique) The predicted size of D2L form is approximately 50 kDa. However, additional bands at approximately 60 and 100 kDa, and others are typically seen in various tissues (2-3). Approximately 100-400 µg of membrane protein/lane should be loaded to visualize various bands.
Immunohistochemistry: not tested. It is recommended that the antibody be tried at 2-10 µg/mL on paraformaldehyde fixed sections.
ELISA: 0.5-1.0 µg/mL (1 µg/mL immunogen peptide (AG211)/well)
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITIES: The immunogen peptide shows sequence homology of 96% with human/bovine/canine, 64% with *Xenopus* D2L receptors. Antibodies generated to the rat sequence have been shown to recognize the canine D2R (2). Antibody cross-reactivity with various species is not known.

FORMAT: Affinity purified immunoglobulin.

PRESENTATION: Liquid in PBS containing 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.

RELATED REFERENCES: 1) *EMBO* (1989) **8**:4025; *PNAS* (1989) **86**:9762; *Nature* (1990) **342**:926; *Nature* (1989) **342**:923.
2) *Mol. Pharmacol.* (1993) **43**:666-676.
3) *Brain Res.* (1992) **575**:309-314; *J. Neurochem.* (1991) **57**:1363-1369; *BBRC* (1992) **184**:661-667; *Brain Res.* (1992) **578**:244-250, *Life. Sci.* (1992) **51**:1509-1516.
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2-26-2004/AB1792P/CB/01/17/08/jc