

## PRODUCT DATA SHEET

**Product Name:** ANTI-DOPAMINE TRANSPORTER, EXTRACELLULAR LOOP 2 ANTIBODY

**Product Code:** P40006-100

**Pack Size:** 100 µL

**Description:** The dopamine transporter (DAT) is responsible for the reaccumulation of dopamine after it has been released. DAT antibodies and antibodies for other markers of catecholamine biosynthesis are widely used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). Levels of DAT protein expression are altered by chronic drug administration (Wilson et al. 1996).

**Physical State:** Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

**Storage/Stability:** Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended

**Purification Method:** Prepared from rabbit serum by affinity purification using a SulfoLink® column matrix to which the peptide immunogen was coupled.

**Shipping Conditions:** Domestic: Blue Ice  
International: Blue Ice or Dry Ice

**Host Species:** Rabbit (Polyclonal)

**Mr (kDa):** 88

**Immunogen:** Peptide from the extracellular loop 2 (EL2) region of human dopamine transporter (DAT), conjugated to keyhole limpet hemocyanin (KLH).

**Species Reactivity:** The antibody has been tested in Western blots of SDS-solubilized human striatal samples and in IHC applications with formaldehyde-fixed human and monkey brain sections.

**Recommended Antibody Dilutions:**

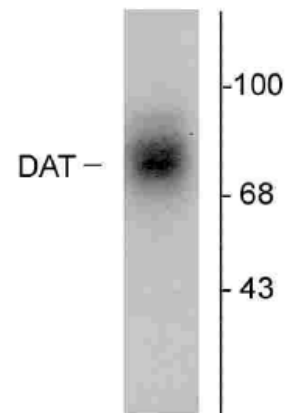
**WB, IHC: 1:1000**

**References:**

- 1) Kish SJ et al. (2001) *Neuropsychopharmacology* 24:561-567.
- 2) Wilson JM et al. (1996) *Nat Med* 2:699-703.
- 3) Zhu MY et al. (1999) *Biol Psychiatry* 46:1275-1286.

**Western Blot**

Human caudate lysate showing specific immunolabeling of the ~88k DAT protein.



**Application Key:** WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation