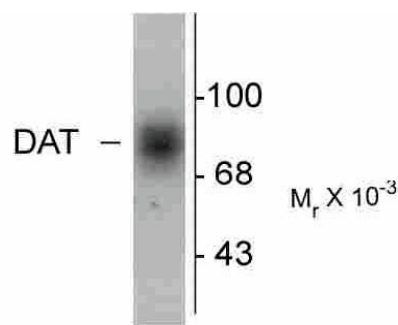


***Pel-Freez***<sup>®</sup>**Product Specifications****Anti-Dopamine Transporter, C-Terminus****Size:** 100 µl**Product Description:** Affinity purified rabbit polyclonal antibody**Applications: WB:** 1:1000**IHC** (frozen sections, formaldehyde fixed tissue; unpublished observations):  
1:1000**Antigen:** Peptide from the intracellular C-terminus 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 and mouse striatal samples and in IHC applications with monkey (Macaque) brain sections.**Biological Significance:** 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).**Anti-Dopamine Transporter****Western blot** of human caudate lysate showing specific immunolabeling of the ~88k DAT protein.

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

**Antibody Specificity:** Specific for the ~88k DAT protein in Western blots.

**Quality Control Tests:** Western blots performed on each lot.

**References:**

Kish SJ, Kalasinsky KS, Derkach P, Schmunk GA, Guttman M, Ang L, Adams V, Furukawa Y, Haycock JW (2001) Striatal dopaminergic and serotonergic markers in human heroin users. *Neuropsychopharmacology* 24:561-567.  
Wilson JM, Kalasinsky KS, Levey AI, Bergeron C, Reiber G, Anthony RM, Schmunk GA, Shannak K, Haycock JW, Kish SJ (1996) Striatal dopamine nerve terminal markers in human, chronic methamphetamine users. *NatMed* 2:699-703.  
Zhu MY, Klimek V, Haycock JW, Ordway GA (2000) Quantitation of tyrosine hydroxylase protein in the locus coeruleus from postmortem human brain. *J Neurosci Meth* 99:37-44.  
Zhu MY, Klimek V, Dilley GE, Haycock JW, Stockmeier C, Overholser JC, Meltzer HY, Ordway GA (1999) Elevated levels of tyrosine hydroxylase in the locus coeruleus in major depression. *Biol Psychiatry* 46:1275-1286.