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Anti-Phospho-Dopamine Transporter (DAT) (Thr53) Antibody

Catalog Number: P00369

About SLC6A3

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). It has been shown that phosphorylation at Thr-53 directly affects dopamine influx and amphetamine-stimulated substrate efflux, indicating that the Thr-53 residue plays a major role in transport activity (Foster et al., 2012).

Overview

Product Name	Anti-Phospho-Dopamine Transporter (DAT) (Thr53) Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Phospho-Dopamine Transporter (DAT) (Thr53) Antibody (Catalog # P00369). Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P23977

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr53 of rat dopamine transporter, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Chicken, Human, Primate, Xenopus, Zebrafish
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

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Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1000

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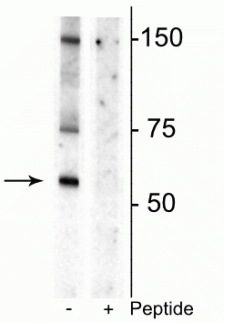
Anti-Phospho-Dopamine Transporter (DAT) (Thr53) Antibody (P00369) Images



Western blot of rat striatal lysate showing specific immunolabeling of the ~55 kDa glycosylated form of the DAT protein phosphorylated at Thr^{53} in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as the antigen, but not by the corresponding non-phosphopeptide (not shown).

1 Publications Citing This Product

1. PubMed ID: 10.1016/j.neures.2010.07.2043, (+)-Cholesten-3-one induces differentiation of neural stem cells into dopaminergic neurons through BMP signaling

Visit bosterbio.com/anti-dopamine-transporter-dat-thr53-antibody-phospho-specific-p00369-boster.html to see all 1 publications.

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