



TH, Tyrosine Hydroxylase (Ser31) Polyclonal Antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-21037
Animal ID	N/A
Host	Rabbit
Reactivity	Mouse, Rat
Format	Affinity Purified
Accession number	N/A
Amount	100µl

Alternative Name(s):

N/A

References:

1. Dunkley PR et al. J Neurochem (2004) 91:1025-1043.
2. Haycock JW et al. Proc Natl Acad Sci (USA) (1992) 89:2365-2369.
3. Witkovsky P et al. J Chem Neuroanat (2000) 19:105-116

Tyrosine Hydroxylase (TH) is the rate-limiting enzyme in the synthesis of the catecholamines Dopamine and Norepinephrine. TH antibodies can therefore be used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse. TH antibodies can also be used to explore basic mechanisms of dopamine and norepinephrine signaling. The activity of TH is also regulated by phosphorylation. Phospho-specific antibodies for the phosphorylation sites on TH can be used to great effect in studying this regulation and in identifying the cells in which TH phosphorylation occurs.

Buffers

100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.

Immunogen

Synthetic phosphopeptide corresponding to amino acids residues surrounding the phospho-Ser31 of rat tyrosine hydroxylase.

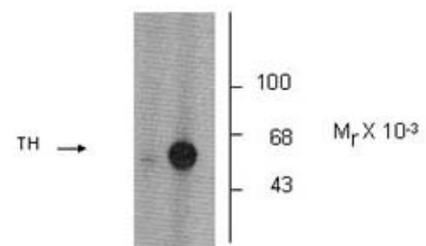
Application

WB: 1:1000; IF (frozen sections; Witkovsky et al., 2000): 1:1000; IHC (frozen sections; Witkovsky et al., 2000): 1:1000

Storage

For long term storage -20°C is recommended. Stable at -20°C for at least 1 year.

Anti-Phospho Ser³¹ Tyrosine Hydroxylase



Okadaic Acid - +
Western blot of PC-12 cells that had been incubated in the absence or presence of Okadaic Acid. Labeling by the Anti-phospho Ser31 TH antibody is seen only in the sample stimulated with Okadaic Acid (1 µM for 60 minutes).