www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-Tyrosine Hydroxylase (Ser31) Antibody

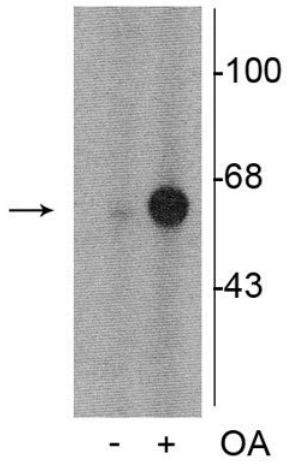
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

Available Variants	100 µL (SKU:p1580-31) 25 µL (SKU:p1580-31t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	TH
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 WB Brain: 1:1000 IHC: 1:300-1:1000 ICC: 1:50-1:300
Species Reactivity	Mouse, Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser31 of rat tyrosine hydroxylase, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~60 kDa tyrosine hydroxylase protein phosphorylated at Ser31.
Molecular Weight	60 kDa
Quality Control	Western blots performed on each lot.

Storage	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.
Antibody Registry ID	AB_2492278
UniProt ID	P04177 UniProt Summary: Catalyzes the conversion of L-tyrosine to L-dihydroxyphenylalanine (L-Dopa), the rate-limiting step in the biosynthesis of catecholamines, dopamine, noradrenaline, and adrenaline. Uses tetrahydrobiopterin and molecular oxygen to convert tyrosine to L-Dopa (PubMed:15287903, PubMed:1680128, PubMed:17391063, PubMed:24753243, PubMed:34922205, PubMed:8528210, Ref.18). In addition to tyrosine, is able to catalyze the hydroxylation of phenylalanine and tryptophan with lower specificity (By similarity). Positively regulates the regression of retinal hyaloid vessels during postnatal development (By similarity). {ECO:0000250|UniProtKB:P04177, ECO:0000250|UniProtKB:P24529, ECO:0000269|PubMed:15287903, ECO:0000269|PubMed:1680128, ECO:0000269|PubMed:17391063, ECO:0000269|PubMed:24753243, ECO:0000269|PubMed:34922205, ECO:0000269|PubMed:8528210, ECO:0000269|Ref.18}.; [Isoform 5]: Lacks catalytic activity. {ECO:0000269|PubMed:17391063}.; [Isoform 6]: Lacks catalytic activity. {ECO:0000269|PubMed:17391063}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Non-Human Primate
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser31
NCBI Gene ID	25085

Product Images



Western blot of PC-12 cell lysate incubated in the absence (-) and presence (+) of okadaic acid (OA, 1 µM for 60 min) showing specific immunolabeling of the ~60 kDa tyrosine hydroxylase phosphorylated at Ser31.