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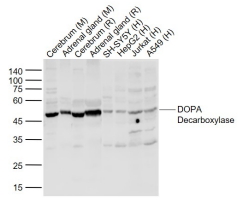
DOPA Decarboxylase Rabbit pAb

Catalog Number:	bs-0180R
Target Protein:	DOPA Decarboxylase
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000)
Reactivity:	Human, Mouse, Rat
Predicted MW:	53 kDa
Entrez Gene:	1644
Swiss Prot:	P20711
Source:	KLH conjugated synthetic peptide derived from human DDC: 201-300/480.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	bs-0180P is one synthetic peptide derived from human DDC. DOPA decarboxylase is an enzyme implicated in 2 metabolic pathways, synthesizing 2 important neurotransmitters: dopamine and serotonin which both play key roles in many clinical disorders, including Parkinson's disease. Following the hydroxylation of tyrosine to form L dihydroxyphenylalanine (LDOPA), catalyzed by tyrosine hydroxylase, DDC decarboxylates LDOPA to form dopamine. This neurotransmitter is found in different areas of the brain and is particularly abundant in basal ganglia. Dopamine is also produced by DDC in the sympathetic nervous system and is the precursor of the catecholaminergic hormones, noradrenaline and adrenaline in the adrenal medulla. In the nervous system, tryptophan hydroxylase produces 5 OH tryptophan, which is decarboxylated by DDC, giving rise to serotonin. DDC is a homodimeric, pyridoxal phosphate dependent enzyme.

VALIDATION IMAGES



Sample: Lane 1: Cerebrum (Mouse) Tissue Lysate at 40 ug Lane 2: adrenal gland (Mouse) TissueLysate at 40 ug Lane 3: Cerebrum (Rat) Tissue Lysate at 40 ug Lane 4: adrenal gland (Rat) Tissue Lysate at 40 ug Lane 5: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 6: HepG2 (Human) Cell Lysate at 30 ug Lane 7: Jurkat (Human) Cell Lysate at 30 ug Lane 8: A549 (Human) Cell Lysate at 30 ug Primary: Anti-DOPA Decarboxylase (bs-0180R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kD Observed band size: 50 kD

PRODUCT SPECIFIC PUBLICATIONS

[IF=1.29] Hiramoto, Keiichi, Yurika Yamate, and Shosuke Kawanishi. "Detection of Dopa‐positive cells in mouse ovaries in response to ocular exposure to ultraviolet B rays." Photodermatology, Photoimmunology & Photomedicine (2014). IHC ; ="Mouse" . 25345490