bs-0180R

[Primary Antibody]

DOPA Decarboxylase Rabbit pAb



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- DATASHEET			400-901-9800
Host: Ral	obit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Po	yclonal		Reactivity: Human Mouse Rat
GenelD: 164	14	SWISS: P20711	neuenny naman, nouse, nat
Target: DO	PA Decarboxylase		
Immunogen: KLH conjugated synthetic peptide derived from human DDC: 201-300/480.		Predicted MW.: ^{53 kDa}	
Purification: aff	nity purified by Protein A		
Concentration: 1m	g/ml		Subcellular Extracellular matrix Location: ,Cytoplasm
Storage: 0.0 Gly Shi free	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

- SELECTED CITATIONS -

• [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