#13561 Store at -20C

DDC (D6N8N) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit IgG	UniProt ID: #P20711	Entrez-Gene Id: 1644
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	Im	munoprecipitation			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity / Sensi	itivity DD	DDC (D6N8N) Rabbit mAb recognizes endogenous levels of total DDC protein.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val33 of human DDC protein.				
Background	dec prod com (3), leuk trac	L-DOPA decarboxylase (DDC) is a pyridoxal 5-phosphate (PLP)-dependent enzyme that catalyzes the decarboxylation of L-DOPA to dopamine (1) and L-5HTP to serotonin (2). By catalyzing the reaction to produce dopamine, DDC is involved in many important metabolic processes and plays a central role in the complex neuroendocrine-immune regulatory network (1). DDC is expressed in the central nervous system (3), but has also been detected in some peripheral organs such as the liver and adrenal gland, as well as leukocytes of rat and human (1). DDC is thought to be the sole enzyme responsible for the synthesis of the trace amines 2-phenylethylamine, p-tyramine, and tryptamine, which are considered to act as neuromodulators (2,4). DDC is also regarded as a general biomarker for neuroendocrine tumors (3).				
Background Refe	2. B 3. K	 Zhou, Z. et al. (2011) PLoS One 6, e18596. Børglum, A.D. et al. (1999) Mol Psychiatry 4, 545-51. Kontos, C.K. et al. (2010) Br J Cancer 102, 1384-90. Ma, J.Z. et al. (2005) Hum Mol Genet 14, 1691-8. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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