

DDC (D6N8N) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit IgG	UniProt ID: #P20711	Entrez-Gene Id: 1644
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 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/Sensitivity		DDC (D6N8N) Rabbit mAb recognizes endogenous levels of total DDC protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val33 of human DDC protein.				
Background		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 References		 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

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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