#13626 Store at -20C

## DAG Lipase α (D3G8H) Rabbit



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<b>Applications:</b> WB, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 115	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y4D2	Entrez-Gene Id: 747	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting			1:1000		
	Imr	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensiti				ecognizes endogenous levels of total DAG lipase $\alpha$ protein. This t with DAG lipase $\beta$ based on sequence homology of the antigen.			
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser791 of human DAG lipase $\alpha$ protein.					
Background	two intra cont diac cant sugi lipas	Diacylglycerol (DAG) lipases comprise two enzymes called DAG lipase $\alpha$ and $\beta$ , which are the products of two related genes (1). DAG lipases are transmembrane proteins composed of a short amino-terminal intracellular domain, four transmembrane domains, and a large carboxy-terminal cytoplasmic domain containing the active site. These enzymes are responsible for the biosynthesis of 2-acylglycerol from diacylglycerol in a calcium-dependent manner (1). One of the major endocannabinoid ligands that activate cannabinoid receptors, 2-arachidonyl glycerol (2-AG), is produced by DAG lipases (2). Research studies suggest that DAG lipase $\alpha$ is the isoform primarily responsible for the central production of 2-AG (3). DAG lipase $\beta$ has been implicated in studies of 2-AG production at the periphery in specific cell types and pathophysiological contexts, such as in hepatic stellate cells during alcohol induced fatty liver (4).					
Background Refere	2. M 3. Ye	isogno, T. et al. (200 lechoulam, R. et al. oshino, H. et al. (201 eong, W.I. et al. (200	, (1995) Biochem l1) J Physiol 589	Pharmacol 50, 83-90. 9, 4857-84.			

**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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