$^{\prime}2$ Store at -20C

IDO (D7Z7U) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, FC-FP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #P28776	Entrez-Gene Id: 15930	
Product Usage Information	Ар	plication				Dilution	
	We	estern Blotting				1:1000	
	lmr	munoprecipitation				1:100	
	Flo	w Cytometry (Fixed	/Permeabilized)			1:100	
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. Do not aliquot the antibody.					
Specificity / Sensitiv	,	IDO (D7Z7U) Rabbit mAb recognizes endogenous levels of total IDO protein. This antibody does not cross-react with mouse IDO2.					
Source / Purification	n Mor	Monoclonal antibody is produced by immunizing animals with recombinant mouse IDO protein.					
Background	limit tum of T mole eva: expi In a imm	INDO/IDO1/indoleamine 2,3-dioxygenase (IDO) is an IFN-y-inducible enzyme that catalyzes the rate-limiting step of tryptophan degradation (1). IDO is upregulated in many tumors and in dendritic cells in tumor-draining lymph nodes. Elevated tryptophan catabolism in these cells leads to tryptophan starvation of T cells, limiting T cell proliferation and activation (2). Therefore, IDO is considered an immunosuppresive molecule, and research studies have shown that upregulation of IDO is a mechanism of cancer immune evasion (3). The gastrointestinal stromal tumor drug, imatinib, was found to act, in part, by reducing IDO expression, resulting in increased CD8 ⁺ T cell activation and induction of apoptosis in regulatory T cells (4). In addition to its enzymatic activity, IDO was recently shown to have signaling capability through an immunoreceptor tyrosine-based inhibitory motif (ITIM) that is phosphorylated by Fyn in response to TGF-β. This leads to recruitment of SHP-1 and activation of the noncanonical NF-κB pathway (5).					
Background Refere	2. M 3. P	 Yasui, H. et al. (1986) Proc Natl Acad Sci U S A 83, 6622-6. Mellor, A.L. et al. (2003) Adv Exp Med Biol 527, 27-35. Prendergast, G.C. (2008) Oncogene 27, 3889-900. Balachandran, V.P. et al. (2011) Nat Med 17, 1094-100. 					

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.

5. Pallotta, M.T. et al. (2011) Nat Immunol 12, 870-8.

Applications Key

WB: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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IDO (D7Z7U) Rabbit mAb (#68572) Datasheet Without Images Cell Signaling Technology

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