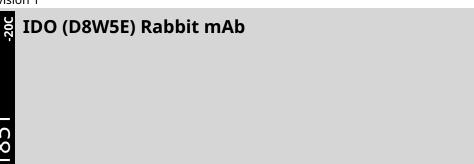
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Applications: W, IP, IF-IC	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #P28776	Entrez-Gene Id: 15930		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		istry)		Dilution 1:1000 1:200 1:1600		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	IDO (D8W5E) Rabbit mAb recognizes endogenous levels of total IDO protein. This antibody does not cross-react with mouse IDO2.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with recombinant mouse IDO protein.						
Background		INDO/IDO1/indoleamine 2,3-dioxygenase (IDO) is an IFN- γ -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- κ B pathway (5).						
Background Re	eferences	1. Yasui, H. et al. (1986) <i>Proc Natl Acad Sci U S A</i> 83, 6622-6. 2. Mellor, A.L. et al. (2003) <i>Adv Exp Med Biol</i> 527, 27-35. 3. Prendergast, G.C. (2008) <i>Oncogene</i> 27, 3889-900. 4. Balachandran, V.P. et al. (2011) <i>Nat Med</i> 17, 1094-100. 5. Pallotta, M.T. et al. (2011) <i>Nat Immunol</i> 12, 870-8.						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 K	еу	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	M: Mouse						
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