#

0312 Store at +4C IDO (D5J4E) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P14902	Entrez-Gene Id: 3620		
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.					
Specificity/Sens	itivity	IDO (D5J4E) Rabbit mAb recognizes endogenous levels of total IDO (IDO-1, INDO) protein. The antibody does not cross-react with IDO-2 (INDOL1). Some nonspecific staining of normal breast epithelium has been observed.					
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with recombinant human IDO protein.					
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated IDO (D5J4E) Rabbit mAb #86630.					
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 Ref	erences	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 Reactivi	ty	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Ke	y	FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	' Key	H: Human					
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