| 1DO (D5J4E [™]) Rabbit mAb | | | | Il Signaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) |
|---|--|----------------------------------|-------------------------|--|
| 866 | | | Web: | info@cellsignal.com cellsignal.com |
| # | | 3 Trask L | ane Danvers Mas | sachusetts 01923 USA |
| For Research Use Only. Not for | Use in Diagnostic Procedures. | | | |
| Applications: Reactive WB, IP, IHC-Bond, IHC- P, IF-IC, FC-FP | rity: Sensitivity: MW (k Endogenous 43 | | UniProt ID: #P14902 | Entrez-Gene Id: 3620 |
| Product Usage Information | Application Dilution | | | |
| | Western Blotting | 1:1000 | | |
| | Immunoprecipitation | | 1:20 | 0 |
| | IHC Leica Bond | | 1:20 | 0 - 1:800 |
| | Immunohistochemistry (Paraffin) | | 1:20 | 0 - 1:800 |
| | Immunofluorescence (Immunocy | ochemistry) | 1:10 | 0 - 1:400 |
| | Flow Cytometry (Fixed/Permeabi | lized) | 1:40 | 0 - 1:1600 |
| Storage | Supplied in 10 mM sodium HEPE 0.02% sodium azide. Store at –20 | u , | | cerol and less than |
| | For a carrier free (BSA and azide | free) version of this product se | e product #91473. | |
| Specificity / Sensitivity | IDO (D5J4E [™]) Rabbit mAb recogr antibody does not cross-react with has been observed. | | | |
| Source / Purification | Monoclonal antibody is produced | by immunizing animals with re | combinant human ID | O 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-κB pathway (5). | | | |
| Background References | 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. Pallotta, M.T. et al. (2011) Nat Immunol 12, 870-8. | | | |
| Species Reactivity | Species reactivity is determined by | testing in at least one approve | ed application (e.g., w | vestern blot). |
| Western Blot Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | |
| Applications Key | WB: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) | | | |

| 3/23/24, 11:28 AM Cross-Reactivity Key | IDO (D5J4E [™]) Rabbit mAb (#86630) Datasheet Without Images Cell Signaling Technology 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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