

# IDO Monoclonal Antibody (eyedio), Brilliant Violet™ 421, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Brilliant Violet™ 421, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eyedio
Conjugate	Brilliant Violet™ 421
Excitation/Emission Max	406/423 nm
Form	liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2925551

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	-

## Product Specific Information

**Description:** This eyedio monoclonal antibody reacts with human indoleamine-2,3-dioxygenase (IDO, INDO, IDO1), an intracellular enzyme that catalyzes the degradation of tryptophan to kynurenines. IDO is expressed in a wide variety of tissues and cells, including macrophages, plasmacytoid dendritic cells, and several cell lines. IDO can be induced in many different cell types by IFN gamma or other inflammatory stimuli. Expression of IDO in antigen presenting cells and tumors is thought to mediate immune suppression through depletion of this essential amino acid and/or by the creation of tryptophan metabolites that cause apoptosis of T cells and induction of regulatory T cells.

**Applications Reported:** This eyedio antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This eyedio antibody has been pre-diluted and tested by intracellular staining followed by flow cytometric analysis of normal human peripheral blood cells using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol A: Two step protocol for intracellular (cytoplasmic) proteins" located at Flow Protocols . This may be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Brilliant Violet™ 421 (BV421) is a dye that emits at 423 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

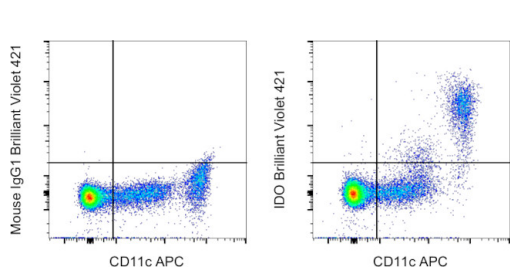
When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a

staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

Excitation: 407 nm; Emission: 423 nm; Laser: Violet Laser.

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**Product Images For IDO Monoclonal Antibody (eyedio), Brilliant Violet™ 421, eBioscience™**



**IDO Antibody (404-9477-41) in Flow**

Normal human peripheral blood cells were stimulated overnight with LPS (Product # 00-4976-03) and surface-stained with CD11c Monoclonal Antibody, APC (Product # 17-0116-42). Cells were then stained intracellularly, using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with Mouse IgG1 kappa Isotype Control, Brilliant Violet 421 (Product # 404-4714-81) (left) or IDO Monoclonal Antibody, Brilliant Violet 421 (right). Viable cells in the monocyte and lymphocyte gates were used for analysis, as determined by LIVE/DEAD™ Fixable Yellow Dead Cell Stain Kit (Product # L34968).

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