

For Research Use Only

COX2/ Cyclooxygenase 2 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 81368-8-PBS



Basic Information

Catalog Number: 81368-8-PBS	GenBank Accession Number: BC013734	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5743	CloneNo.: 253114D4
Source: Rabbit	UNIPROT ID: P35354	
Isotype: IgG	Full Name: prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	
Immunogen Catalog Number: AG26174	Calculated MW: 604 aa, 68 kDa	

Applications

Tested Applications:
Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Product Information

81368-8-PBS targets COX2/ Cyclooxygenase 2 as part of a matched antibody pair:

MP03379-1: 81368-9-PBS capture and 81368-8-PBS detection (validated in Cytometric bead array)

MP03379-2: 81368-10-PBS capture and 81368-8-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

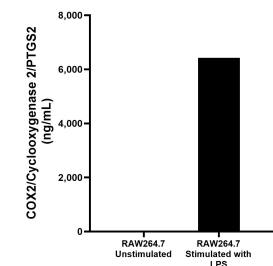
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

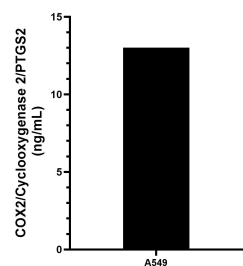
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

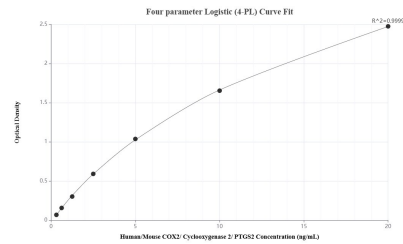
Selected Validation Data



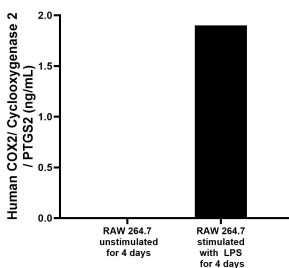
The mean COX2/ Cyclooxygenase 2/ PTGS2 concentration was determined to be 13.84 ng/mL in unstimulated RAW264.7 cell extract based on a 1.1 mg/mL extract load and 6,427.43 ng/mL in LPS stimulated RAW264.7 cell extract based on a 3.2 mg/mL extract load.



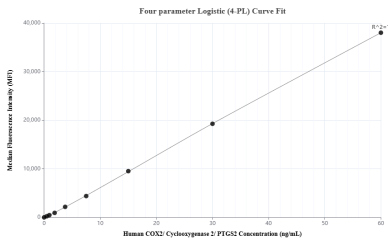
The mean COX2/ Cyclooxygenase 2/ PTGS2 concentration was determined to be 13.01 ng/mL in A549 cell extract based on a 1.2 mg/mL extract load.



Sandwich ELISA standard curve of MP03379-2, Human/Mouse COX2/ Cyclooxygenase 2/ PTGS2 Recombinant Matched Antibody Pair - PBS only. 81368-10-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag26174. 81368-8-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL



RAW 264.7 mouse monocyte/macrophage cells (3.5 x 10⁶ cells/mL) were cultured in DMEM supplemented with 8% fetal bovine serum, 2.5 mM L-glutamine, 100 U/mL penicillin, and 100 µg/mL streptomycin sulfate. Cells were cultured stimulated with 1 µg/mL LPS for 4 days. Aliquots of the cell culture supernates were removed and assayed for levels of COX2/ Cyclooxygenase 2/ PTGS2, and measured 1.9 ng/mL



Cytometric bead array standard curve of MP03379-1, COX2/ Cyclooxygenase 2/ PTGS2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 81368-9-PBS. Detection antibody: 81368-8-PBS. Standard: Ag26174. Range: 0.469-60 ng/mL