

# COX2 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to a region within amino acids 534 and 604 of Human COX2
Form	Liquid
Concentration	0.42 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544714

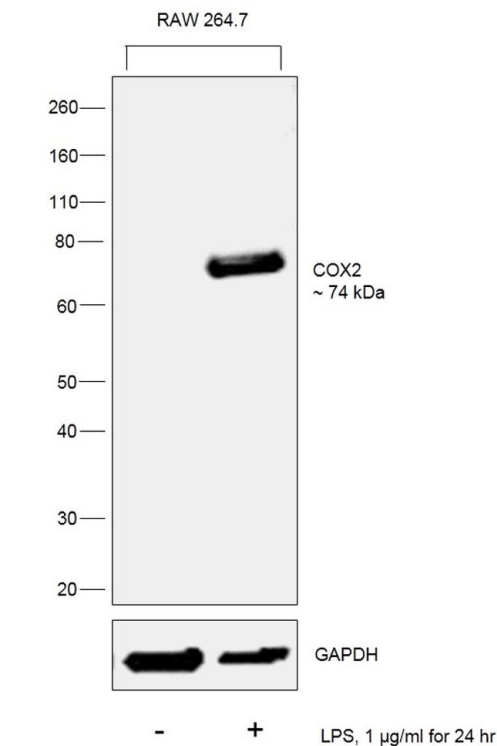
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	10 µg/ml	-

## Product Specific Information

Recommended positive controls: THP-1 (100 ng/mL PMA treatment for 16 hr and 1000 ng/mL LPS treatment for 24 hr), RAW264.7 (0.1 µg/mL PMA treatment for 16 hr and 1 µg/mL LPS treatment for 24 hr).

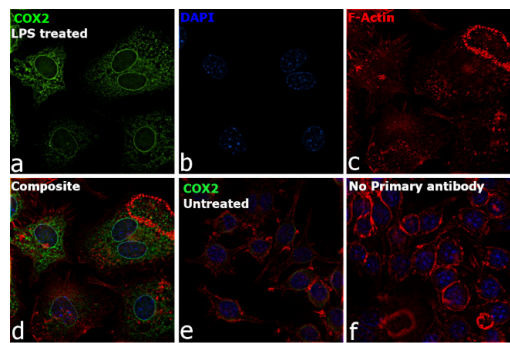
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For COX2 Polyclonal Antibody



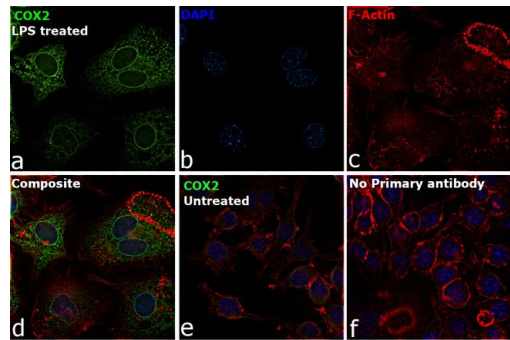
COX2 Antibody (PA5-27238)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Anti-COX2 Rabbit Polyclonal Antibody (Product # PA5-27238) shows increased expression of proteins in RAW 264.7 cell line upon LPS treatment. (DOI:10.1038/s41598-017-10720-4). {TM}



COX2 Antibody (PA5-27238) in ICC/IF

Immunofluorescence analysis of COX2 was performed using 70% confluent log phase RAW 264.7 cells treated with 100 ng/mL of Lipopolysaccharide for 24 Hrs. The cells were fixed with 4% Paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with COX2 Polyclonal Antibody (Product # PA5-27238) at 10 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034), (1:2000 dilution) for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Cytoplasmic and nuclear membrane localization. Panel e represents untreated cells with reduced signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



COX2 Antibody (PA5-27238)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis using COX2 Polyclonal Antibody (Product # PA5-27238), shows increased expression of COX2 in RAW 264.7 cells upon Lipopolysaccharide treatment. {TM}

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