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EB05286 - Goat Anti-COX2 / PTGS2 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: PTGS2, COX2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase), COX-2, PHS-2, PGG/HS, PGHS-2, hCox-2, prostaglandin G/H synthase and cyclooxygenase, GRIPGHS, cyclooxygenase 2b
Official Symbol: PTGS2
Accession Number(s): NP_000954.1
Human GeneID(s): 5743

Immunogen

Peptide with sequence C-NPTVLLKERSTEL, from the C Terminus of the protein sequence according to NP_000954.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 75-80kDa band observed in lysates of cell lines A549 and Daudi (predicted MW of 69kDa according to NP_000954.1). This molecular weight is routinely observed by other sources. Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm and vesicles of HepG2 and NIH3T3 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

Additional validation: This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

Species Reactivity

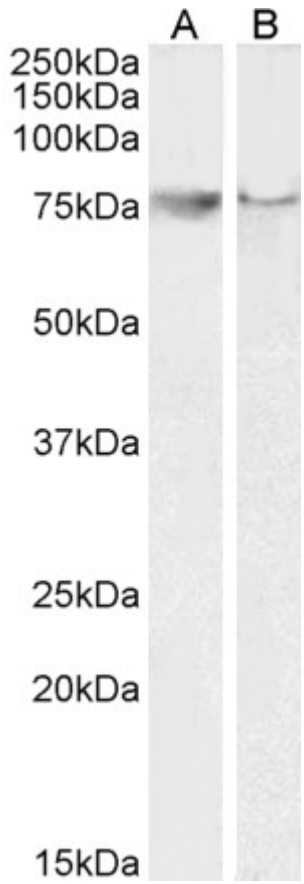
Tested: Human, Mouse
Expected from sequence similarity: Human, Dog, Pig, Cow

Specific References

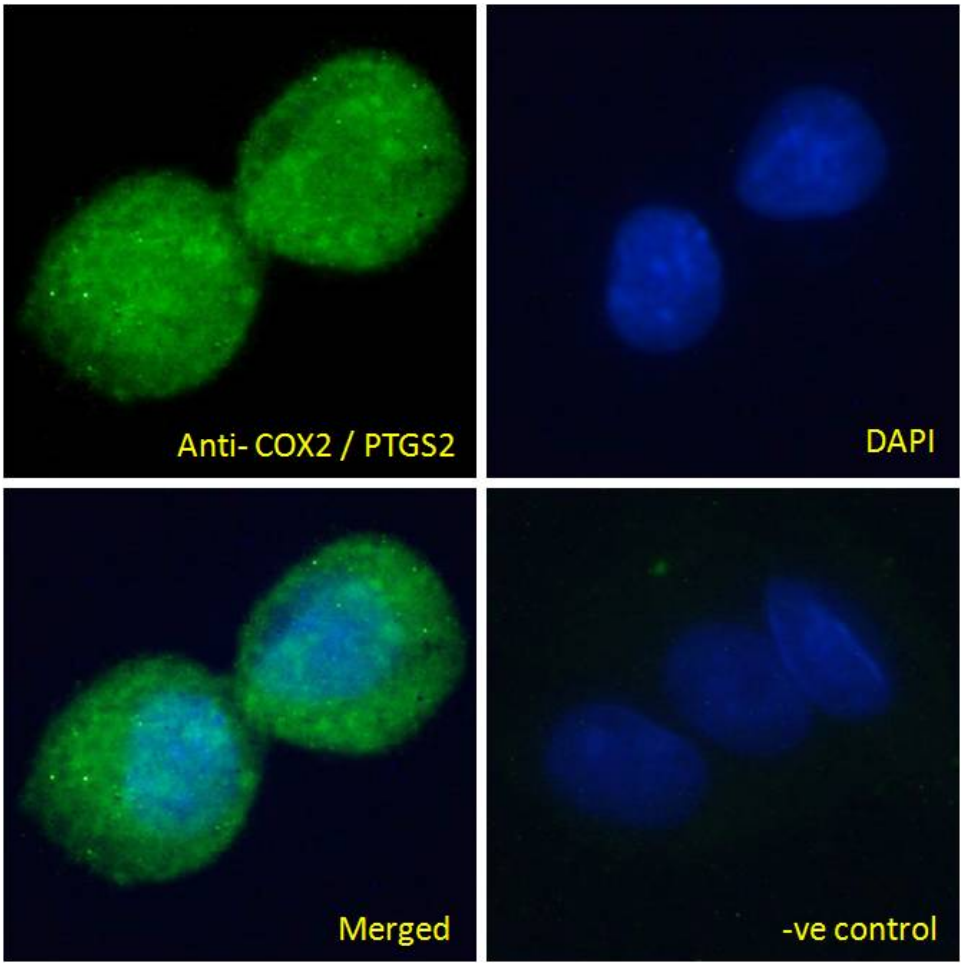
This antibody has been successfully used in the following paper:
Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen
A high-throughput pipeline for validation of antibodies
Nat Methods. 2018 Nov;15(11):909-912
PMID: 30377371

This antibody has been successfully used in the following paper:
Betsy B Dokken, Charles V Piermarini, Mary K Teachey, Michael T Gura, Christian J

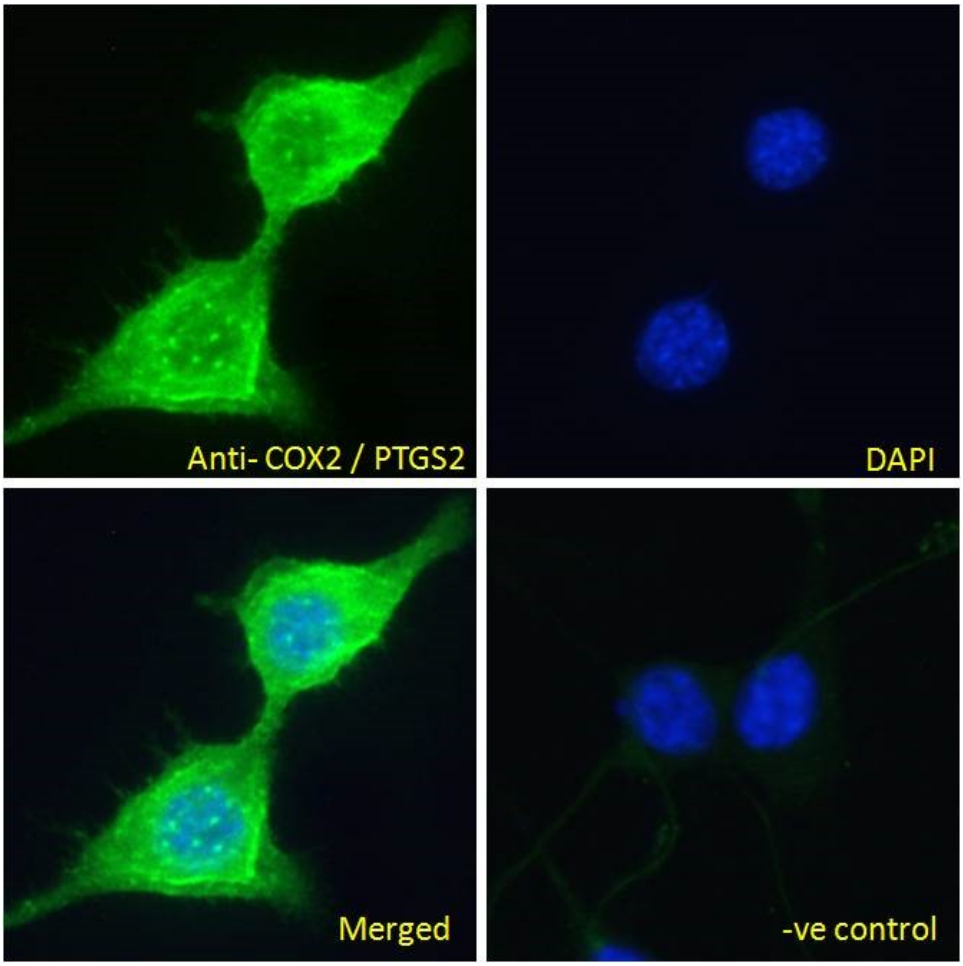
Dameff, Brian D Heller, Jonida Krate, Aeen M Ashgar, Lauren Querin, Jennifer L Mitchell, Ronald W Hilwig, Karl B Kern
Glucagon-like peptide-1 preserves coronary microvascular endothelial function after cardiac arrest and resuscitation: potential antioxidant effects
Am J Physiol Heart Circ Physiol. 2013 Feb 15;304(4):H538-46.
PMID: 23241323



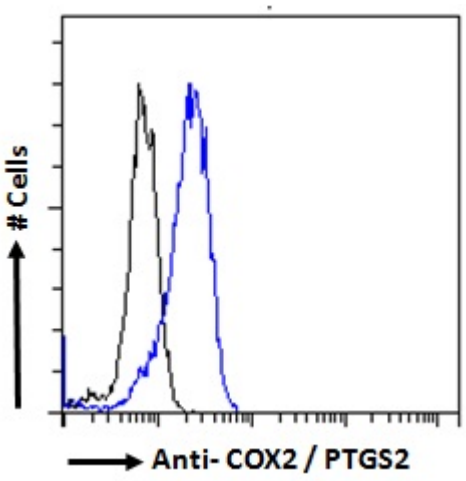
EB05286 (0.1µg/ml) staining of A549 (A) and Daudi (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB05286 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic/vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05286 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasm and vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05286 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.