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EB05285 - Goat Anti-COX1 / PTGS1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: PTGS1, COX1, COX3, PHS1, PCOX1, PGHS1, PTGHS, PGG/HS, PGHS-1, prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase), prostaglandin G/H synthase and cyclooxygenase, RP11-542K23.6
Official Symbol: PTGS1
Accession Number(s): NP_000953.2; NP_542158.1
Human GeneID(s): 5742
Important Comments: This antibody is expected to recognise both human isoforms of this protein according to NP_000953.2 and NP_542158.1.

Immunogen

Peptide with sequence C-QDDGPAVERPSTEL, from the C Terminus of the protein sequence according to NP_000953.2; NP_542158.1.

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 60kDa and 70-75kDa bands observed in lysates of cell line U937 and approx 70-75kDa band observed in Mouse Kidney and Skeletal Muscle lysates (calculated MW of 64.5kDa according to Human NP_542158.1 and 68.7kDa Human NP_000953.2, and 69.0kDa according to Mouse NP_032995.1). The observed molecular weights correspond to earlier findings with different antibodies from other commercial sources. Recommended concentration: 0.5-2µg/ml.

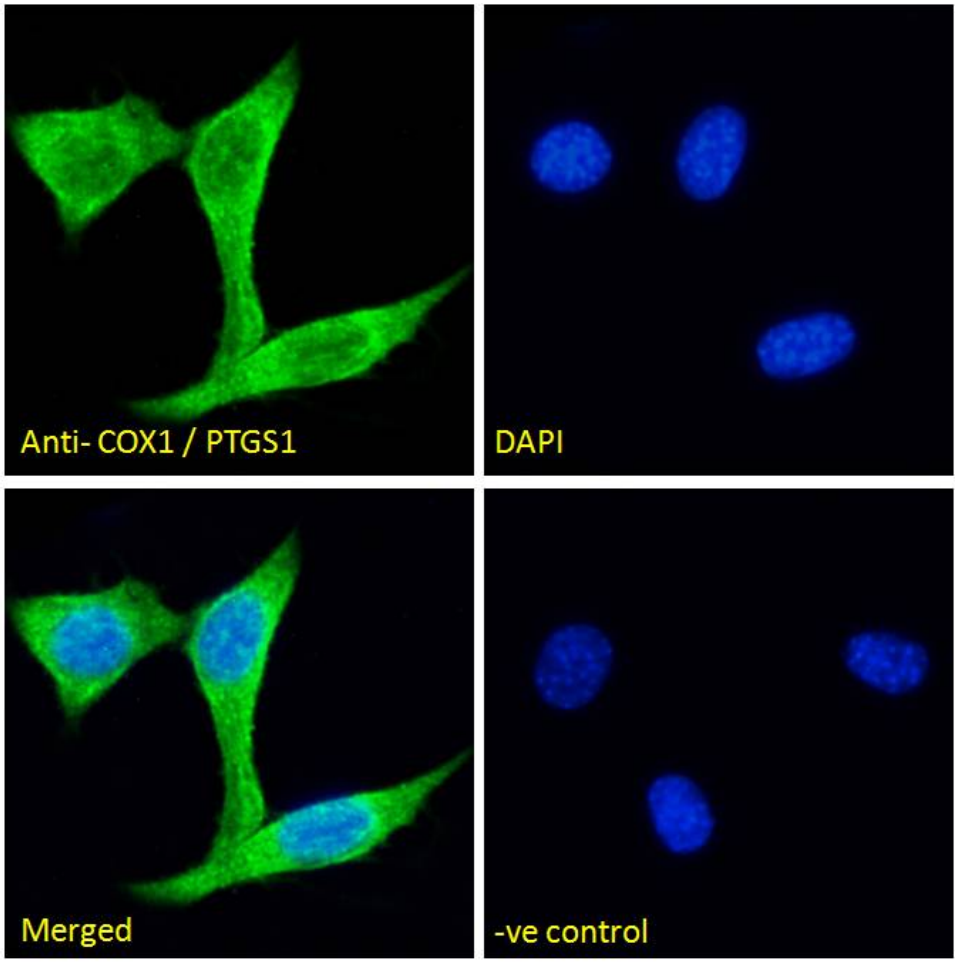
Immunofluorescence: Strong expression of the protein seen in the Golgi apparatus and vesicles of NIH3T3 cells. Recommended concentration: 5µg/ml.

Species Reactivity

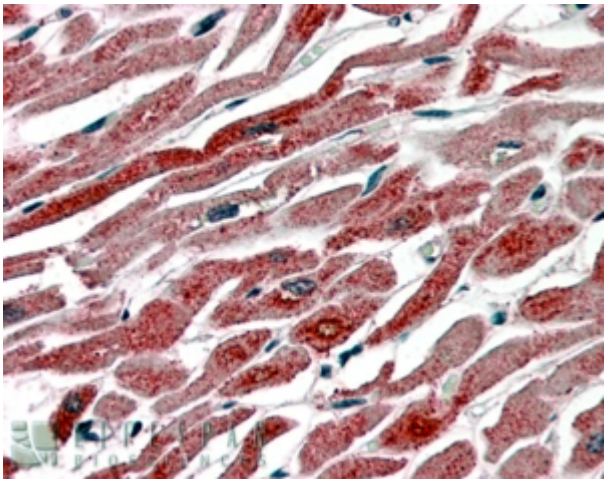
Tested: Human, Mouse
Expected from sequence similarity: Human

EB05285 (2µg/ml) staining of U937 lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB05285 (0.5µg/ml) staining of Mouse Kidney (A) and Skeletal Muscle (B) lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB05285 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Golgi and vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05285 (3.8µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. **This data is from a previous batch, not on sale.**