

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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.

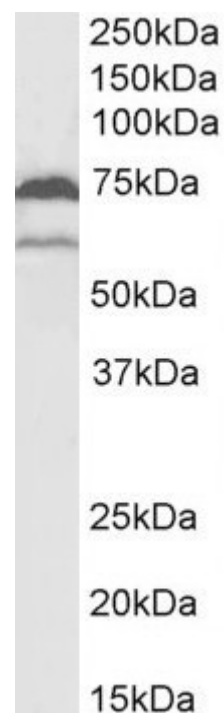
**Western blot:** Approx 60kDa and 70-75kDa bands observed in lysates of cell line U937 and approx 70-75kDa band observed in Mouse Kidney and Skeletal Muscle lysates (calculated MW of 64.5kDa according to Human NP\_542158.1 and 68.7kDa Human NP\_000953.2, and 69.0kDa according to Mouse NP\_032995.1). 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

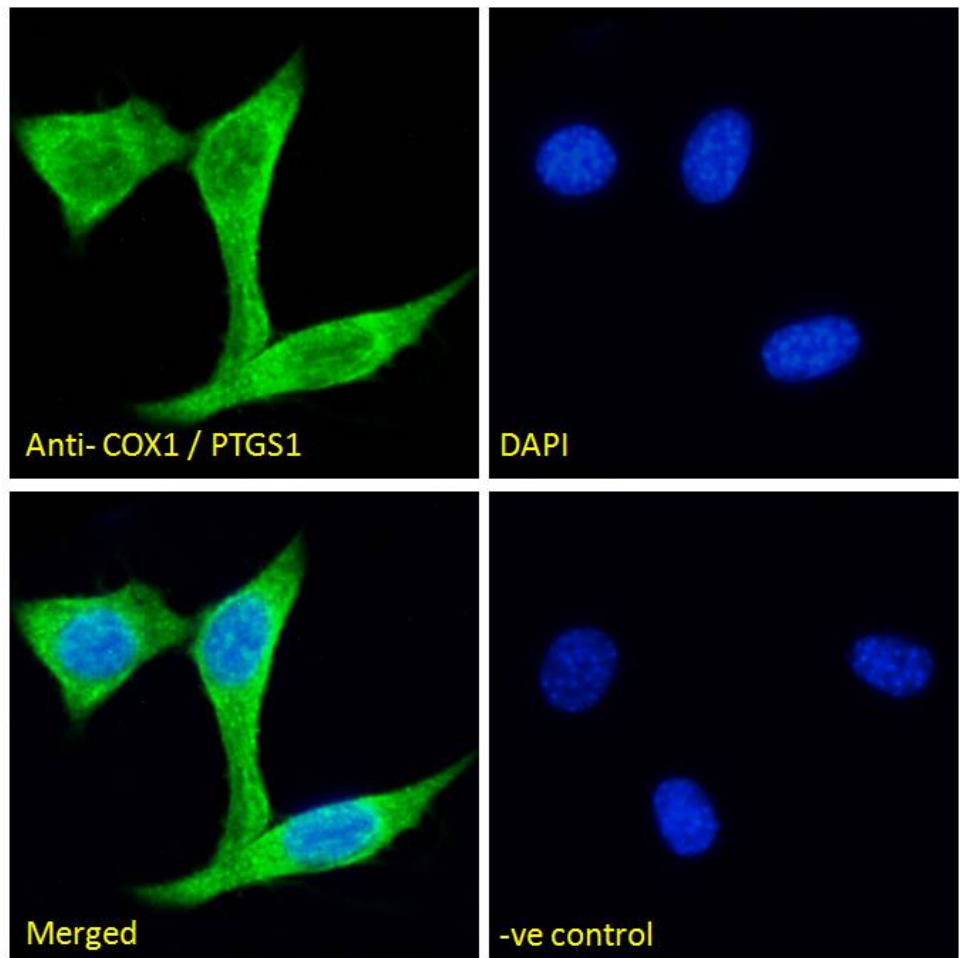
**Expected from sequence similarity:** Human



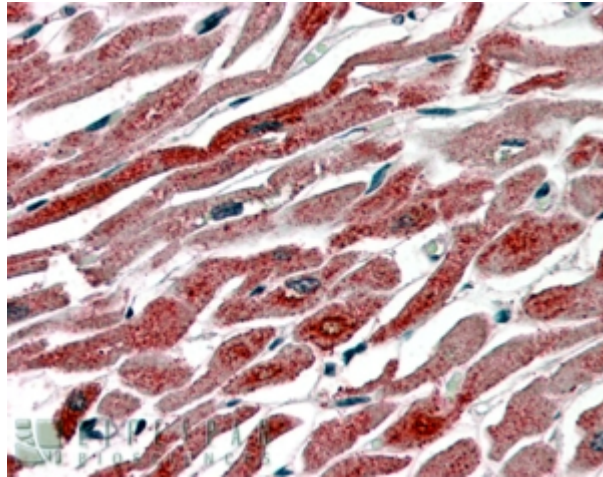
EB05285 (2 $\mu$ g/ml) staining of U937 lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour.  
Detected by chemiluminescence.



EB05285 (0.5 $\mu$ g/ml) staining of Mouse Kidney (A) and Skeletal Muscle (B) lysate (35 $\mu$ g 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.**