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

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). The observed molecular weight corresponds to earlier findings with different antibodies from other commercial 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.

Species Reactivity

Tested: Human, Mouse

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

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.