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

EB07378 - Goat Anti-SOX2 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: SOX2, SRY (sex determining region Y)-box 2, ANOP3, MGC2413, SRY-related HMG-box gene 2, sex-determining region Y-box 2, transcription factor SOX2

Official Symbol: SOX2

Accession Number(s): NP_003097.1

Human GeneID(s): [6657](#)

Immunogen

Peptide with sequence YNMMETELKPPGPQQ-C, from the N Terminus of the protein sequence according to NP_003097.1.

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 37kDa band observed in nuclear lysates of cell line MCF7 and in lysates of Human glioblastoma cell line U251 (calculated MW of 34.3kDa according to)NP_003097.1). Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the nucleus of U251 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of MCF7 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow

EB07378 (0.3µg/ml) staining of MCF7 nuclear (A) and U251 (B) cell lysate (35µg protein in RIPA buffer).

Detected by chemiluminescence.

EB07378 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB07378 Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.