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EB05999-T - Goat Anti-FOXA1 / HNF3A Antibody - Trial

Size: 20µg specific antibody in 40µl

Target Protein

Principal Names: FOXA1, HNF3A, forkhead box A1, TCF3A, MGC33105, hepatocyte nuclear factor 3, alpha
Official Symbol: FOXA1
Accession Number(s): NP_004487.2
Human GeneID(s): 3169
Non-Human GeneID(s): 15375 (mouse), 25098 (rat)

Immunogen

Peptide with sequence C-GVYSRPVLNTS, from the C Terminus of the protein sequence according to NP_004487.2.

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 1:128000.
Western blot: Approx 50kDa band observed in nuclear lysates of cell line HepG2 and approx 50-55kDa in Mouse Liver and in nuclear lysates of cell line MCF7 calculated MW of 49.1kDa according to Human NP_004487.2 and 48.9kDa according to Mouse NP_032285.2).These bands were successfully blocked by incubation with the immunizing peptide. Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the nuclei of MCF7 and U2OS cells. Recommended concentration: 10µg/ml.

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

Species Reactivity

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

EB05999 (0.1µg/ml) staining of HepG2 (A) and (0.3ug/ml) MCF7 (B) nuclear cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB05999 (0.1µg/ml) staining of Mouse Liver lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB05999 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB05999 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB05999 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.