



## International Office

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

## EB05999 - Goat Anti-FOXA1 / HNF3A Antibody

Size: 100µg specific antibody in 200µl



### 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.

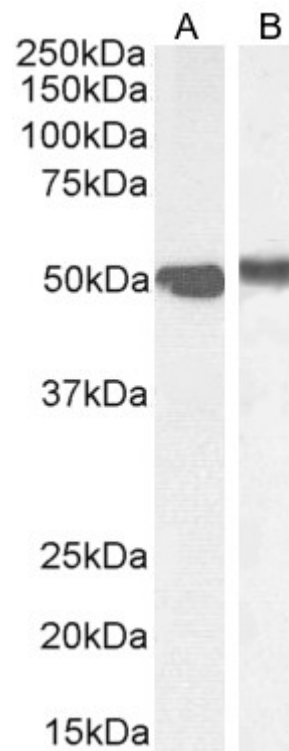
**Immunofluorescence:** Strong expression of the protein seen in the nuclei of MCF7 and U2OS cells. Recommended concentration: 10µg/ml.

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

### Species Reactivity

**Tested:** Human, Mouse

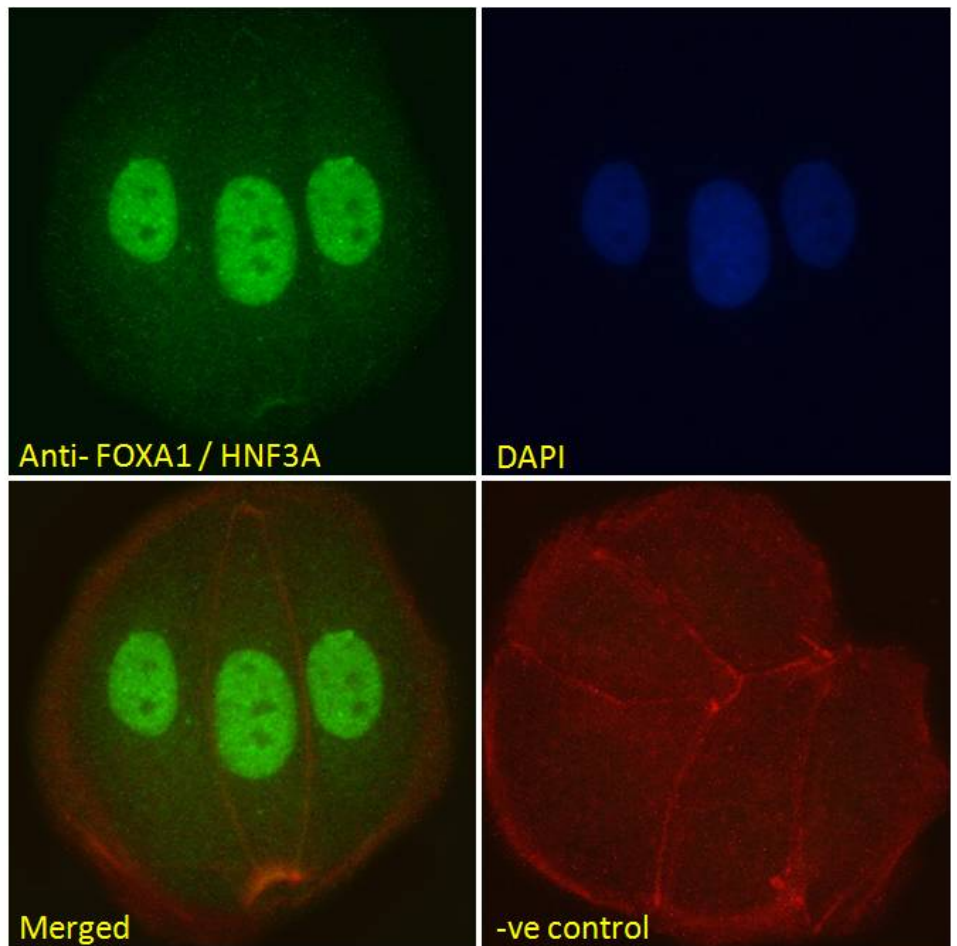
**Expected from sequence similarity:** Human, Mouse, Rat, Pig, Cow



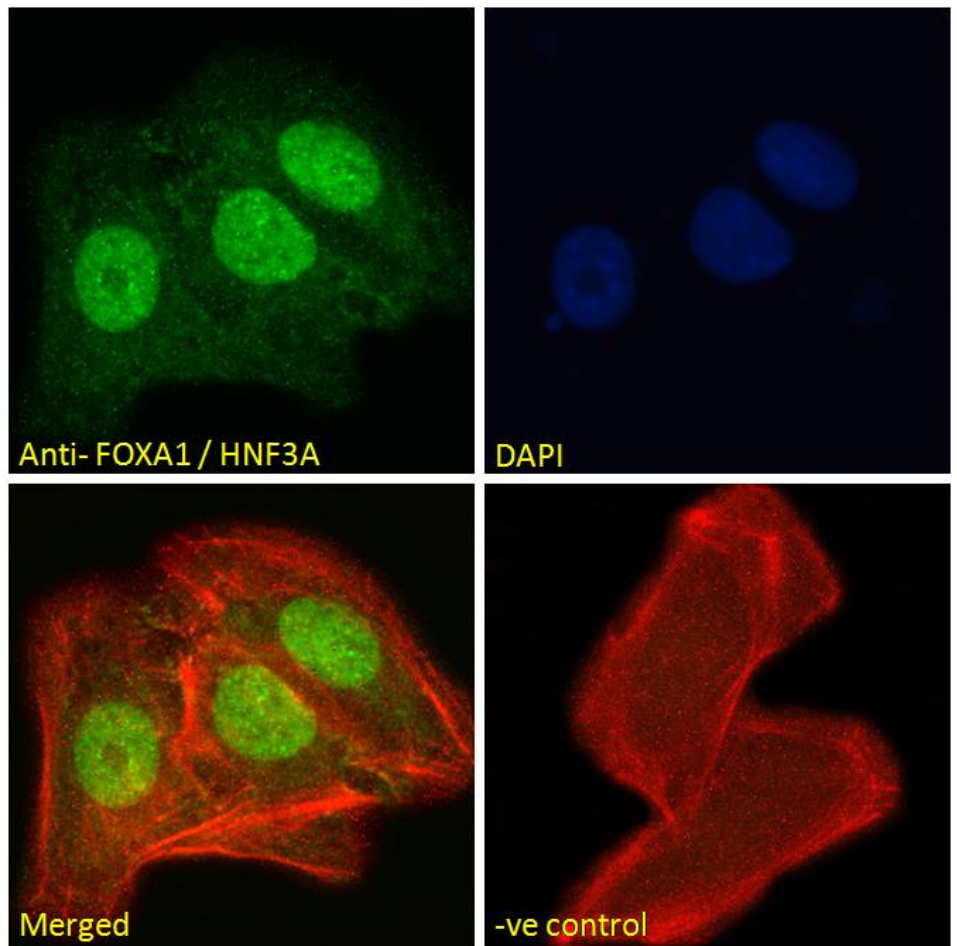
EB05999 (0.1 $\mu$ g/ml) staining of HepG2 (A) and (0.3 $\mu$ g/ml) MCF7 (B) nuclear cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



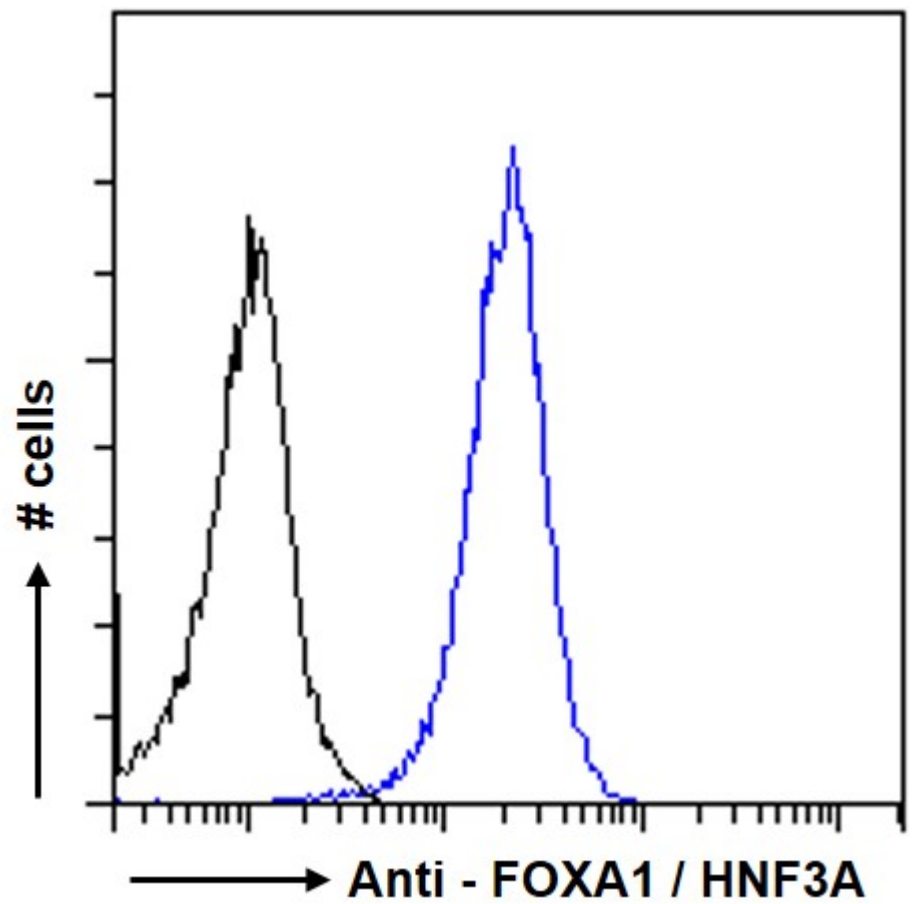
EB05999 (0.1 $\mu$ g/ml) staining of Mouse Liver lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



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.