



## UK Office

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

## EB06959-T - Goat Anti-CBX3 / HP1 Gamma Antibody - Trial

Size: 20µg specific antibody in 40µl



### Target Protein

**Principal Names:** CBX3, HP1-GAMMA, chromobox homolog 3 (HP1 gamma homolog, Drosophila), HGNC:1553, HECH, HP1Hs-gamma, HP1 gamma homolog, chromobox homolog 3, chromobox homolog 3 (Drosophila HP1 gamma), heterochromatin protein HP1 gamma, heterochromatin-like protein 1

**Official Symbol:** CBX3

**Accession Number(s):** NP\_009207.2

**Human GeneID(s):** [11335](#)

**Non-Human GeneID(s):** 12417 (mouse), 297093 (rat)

**Important Comments:** No cross-reactivity expected with HP1-alpha and HP1-beta. Reported variants represent identical protein: NP\_009207.2, NP\_057671.2

### Immunogen

Peptide with sequence C-EAFLNSQKAGKEKD, from the internal region of the protein sequence according to NP\_009207.2.

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 1:32000.

**Western blot:** Approx. 20kDa band observed in lysates of cell lines A431, HeLa, HepG2, NIH3T3 and NSO (calculated MW of 20.8kDa according to NP\_009207.2 and NP\_057671.2). Recommended concentration: 0.3-1.0 µg/ml.

**IHC:** In paraffin embedded Human Placenta shows strong nuclear staining in trophoblasts. Recommended concentration: 2-3µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in HeLa and U2OS 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, Mouse, Rat, Cow, Dog

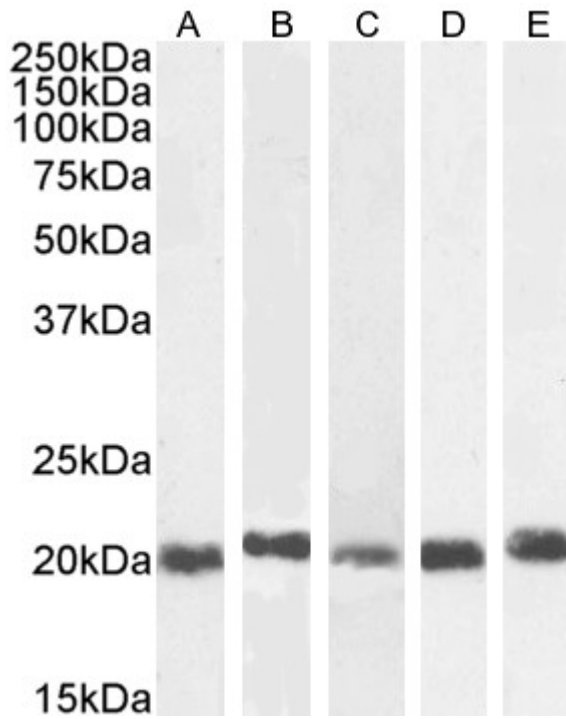
### Specific Reference

**This antibody has been successfully used in Western blot on Mouse:**

Francescopaolo Di Cello, James Shin, Kirsten Harbom, Cory Brayton  
Knockdown of HMGA1 inhibits human breast cancer cell growth and metastasis in immunodeficient mice

Biochem Biophys Res Commun. 2013 Apr 26;434(1):70-4.

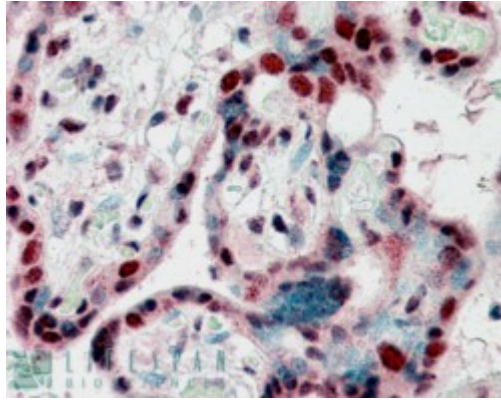
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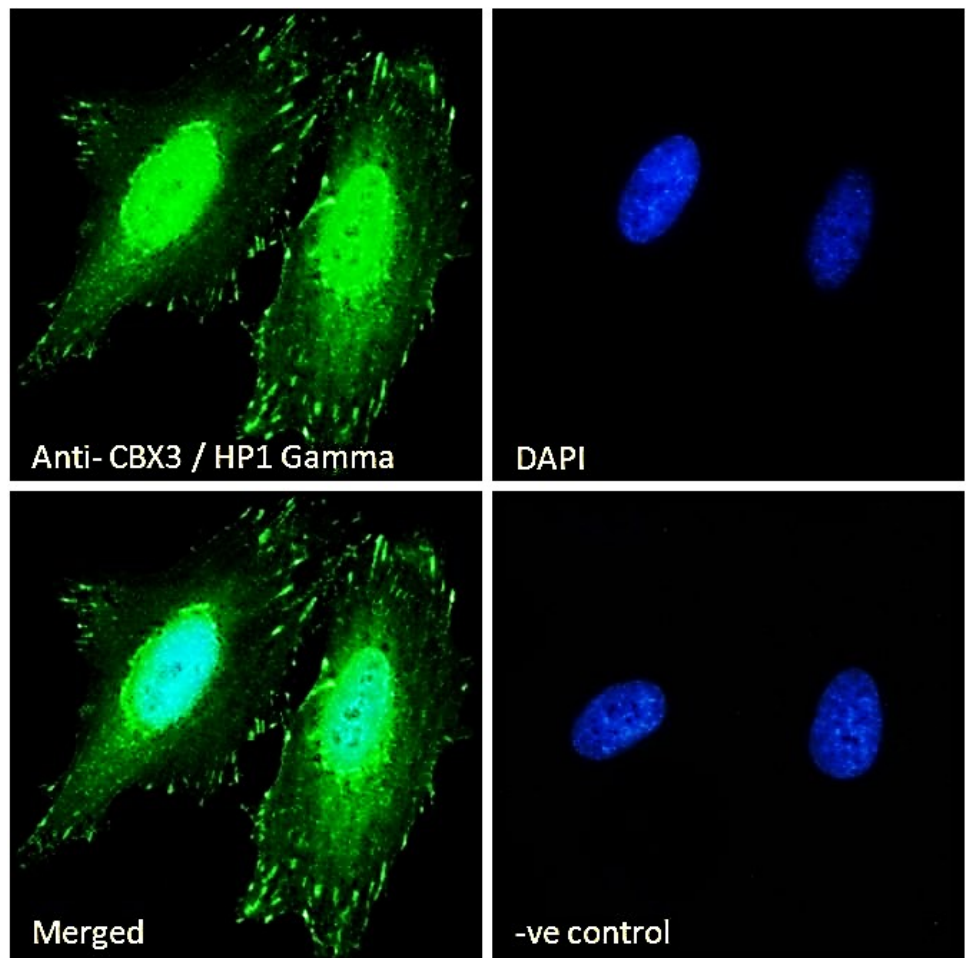
EB06959 (0.03 $\mu$ g/ml) staining of A431 (A), HeLa (B), HepG2 (C), Jurkat (D) and K562 (E) nuclear cell lysate. (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



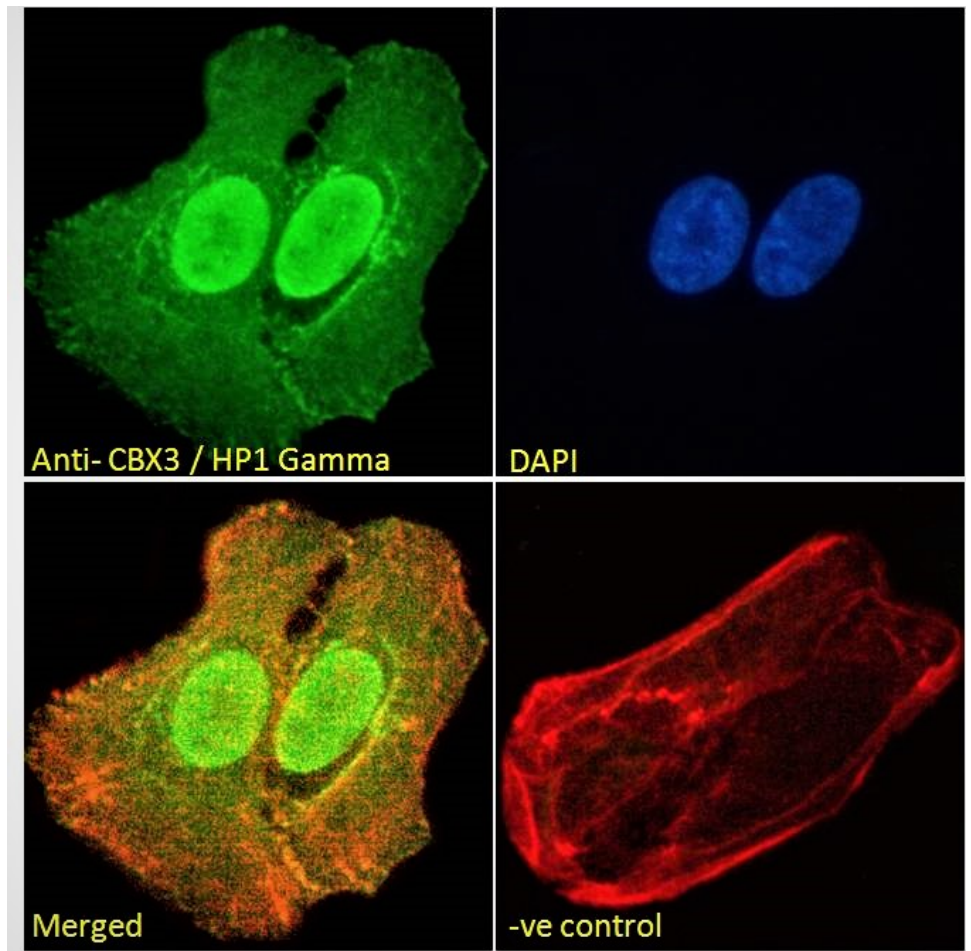
EB06959 (0.1 $\mu$ g/ml) staining of NIH3T3 nuclear cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



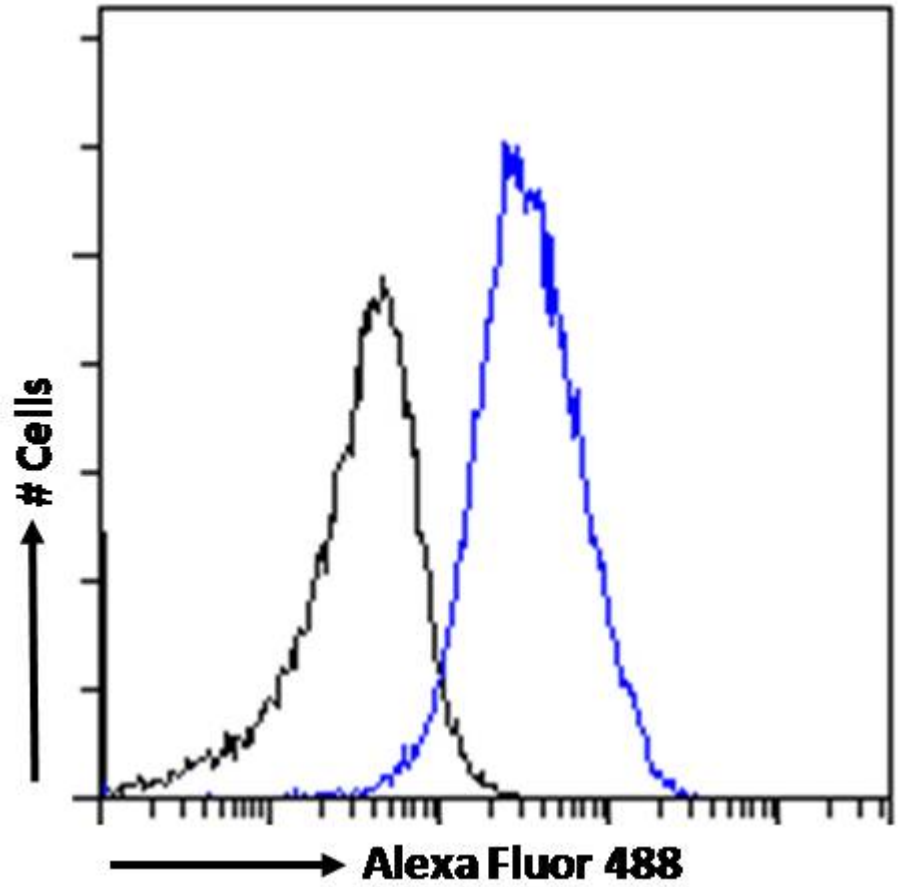
EB06959 (2.5µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06959 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear and some cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06959 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 and some cytoplasmic 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).



EB06959 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 (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.