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EB06957 - Goat Anti-CBX5 / HP1-Alpha Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: CBX5, HP1-ALPHA, chromobox homolog 5 (HP1 alpha homolog, Drosophila), HGNC:1555, HP1, HP1Hs-alpha, chromobox homolog 5 (Drosophila HP1 alpha), Heterochromatin protein-1, HP1A, antigen p25, heterochromatin protein 1 homolog alpha, heterochromatin protein 1-alpha
Official Symbol: CBX5
Accession Number(s): NP_036249.1; NP_001120793.1; NP_001120794.1
Human GeneID(s): 23468
Important Comments: Variants (NP_036249.1; NP_001120793.1; NP_001120794.1) encode the same protein.

Immunogen

Peptide with sequence C-NKRKSNFSNSADDIK, from the internal region of the protein sequence according to NP_036249.1; NP_001120793.1; NP_001120794.1.

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 1:128000.
Western blot: Approx 24-25kDa band observed in lysates of cell lines A43N and K562 (calculated MW of 22.2kDa according to Human NP_036249.1). Recommended concentration: 0.03-0.1µg/ml. Primary incubation 1 hour at room temperature.

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

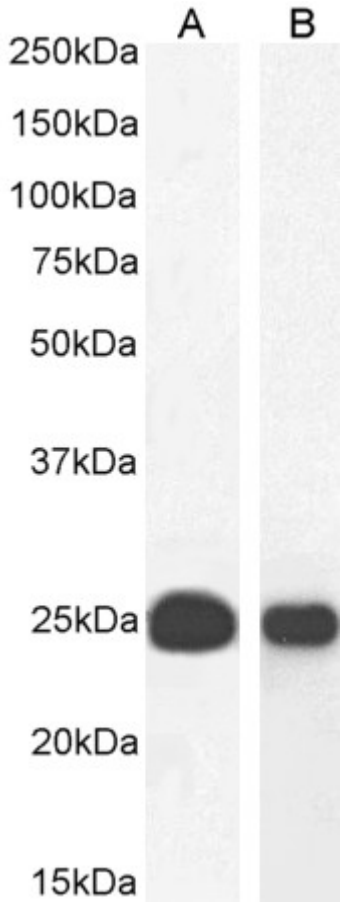
Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

Species Reactivity

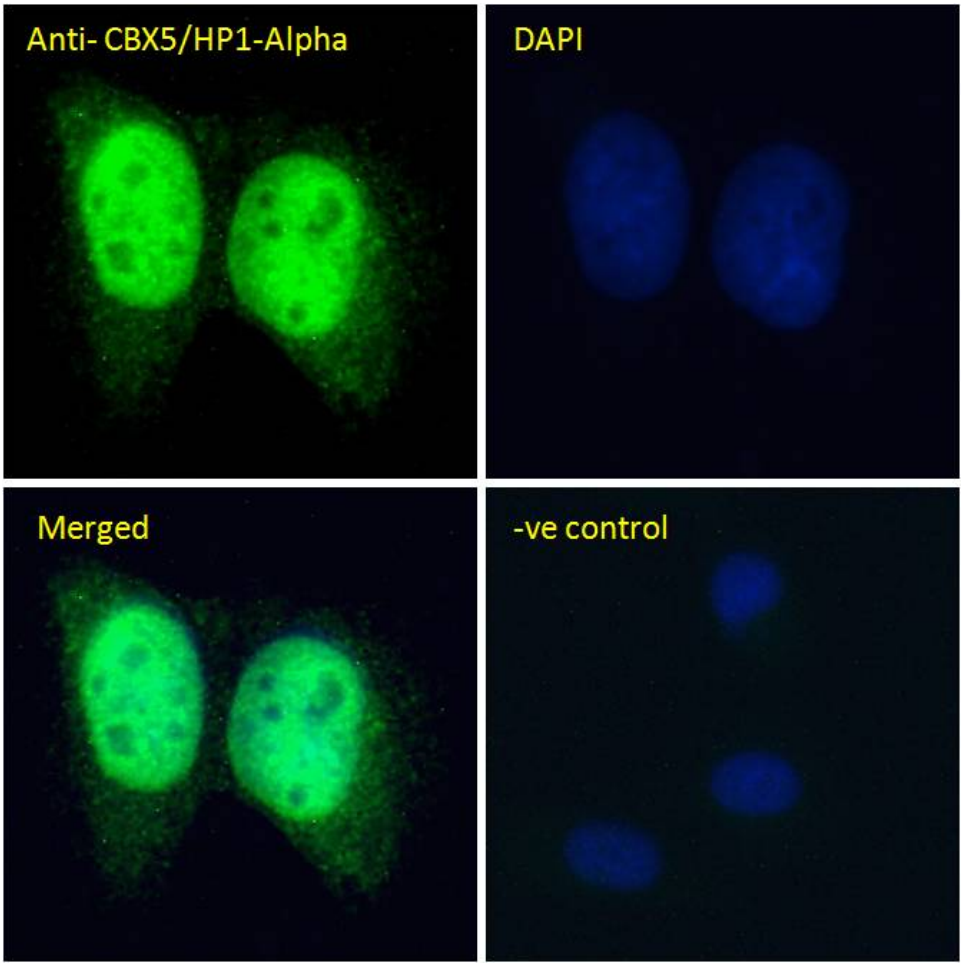
Tested: Human
Expected from sequence similarity: Human, Mouse, Dog

Specific Reference

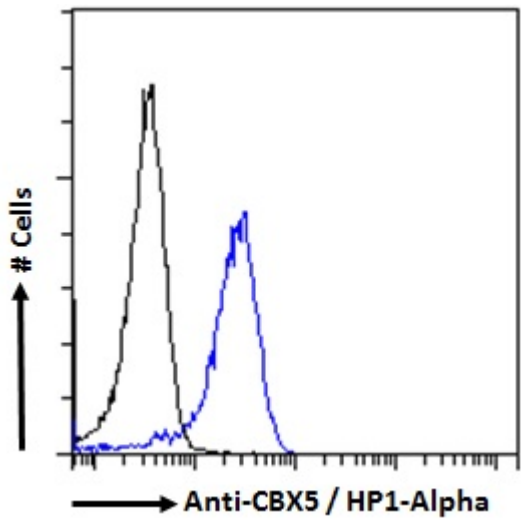
This antibody (previous batch) has been successfully used in the following paper:
Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen
A high-throughput pipeline for validation of antibodies
Nat Methods. 2018 Nov;15(11):909-912
PMID: 30377371



EB06957 (0.03µg/ml) staining of A43N (A) and K562 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB06957 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml).



EB06957 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.