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

EB06859 - Goat Anti-HMGA1 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: HMGA1, high mobility group AT-hook 1, HGNC:5010, HMG-R, HMGIY, MGC12816, MGC4242, MGC4854, OTTHUMP00000039618, high-mobility group (nonhistone chromosomal) protein isoforms I and Y, nonhistone chromosomal high-mobility group protein HMG-I/HMG-Y, HMGA1A, OTTHUMP00000016223, OTTHUMP00000016224

Official Symbol: HMGA1

Accession Number(s): NP_665906.1; NP_665908.1; NP_002122.1; NP_665909.1; NP_665912.1; NP_665910.1

Human GeneID(s): [3159](#)

Important Comments: This antibody is expected to recognise isoform a (also called HMG-I; NP_665906.1; NP_665908.1) and isoform b (also called HMG-Y; NP_002122.1; NP_665909.1; NP_665910.1; NP_665912.1).

Immunogen

Peptide with sequence C-LASKQEKDGTEK, from the internal region of the protein sequence according to NP_665906.1; NP_665908.1; NP_002122.1; NP_665909.1; NP_665912.1; NP_665910.1.

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: Preliminary experiments gave an approx 50kDa band in Human Testis and Ovary lysates after 0.3µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 11.7kDa according to isoform a (also called HMG-I; NP_665906.1; NP_665908.1; NP_665911.1) and 10.7kDa according to isoform b (also called HMG-Y; NP_002122.1; NP_665909.1; NP_665910.1; NP_665912.1). The 50kDa band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

IHC: In paraffin embedded Human Placenta shows strong nuclear staining.
Recommended concentration, 4-6µg/ml.

Species Reactivity

Tested: Human

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

Specific Reference

Di Cello F, Shin J, Harbom K, Brayton C.

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.

PMID: 23545254

EB06859 (4µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.