

## UK Office

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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.

**IHC:** Paraffin embedded Human Placenta and Small Intestine. Recommended concentration: 4µg/ml.

**Additional validation:** This antibody has been successfully used in qRT-PCR on Human: Cello et al. (2013) PMID: 23545254.

## Species Reactivity

**Tested:** Human

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

## Specific Reference

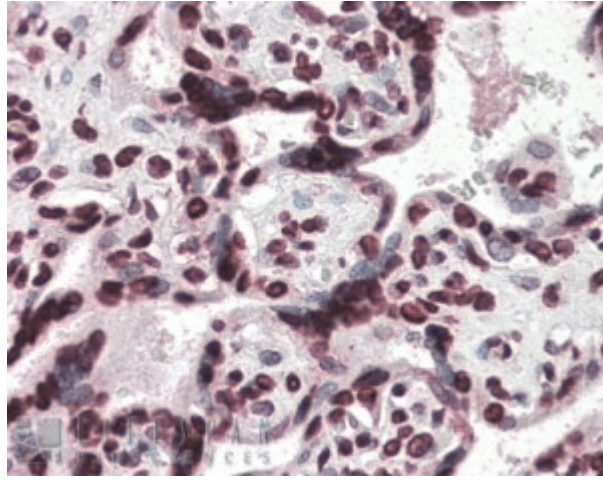
**This antibody has been successfully used in qRT-PCR on Human:**

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

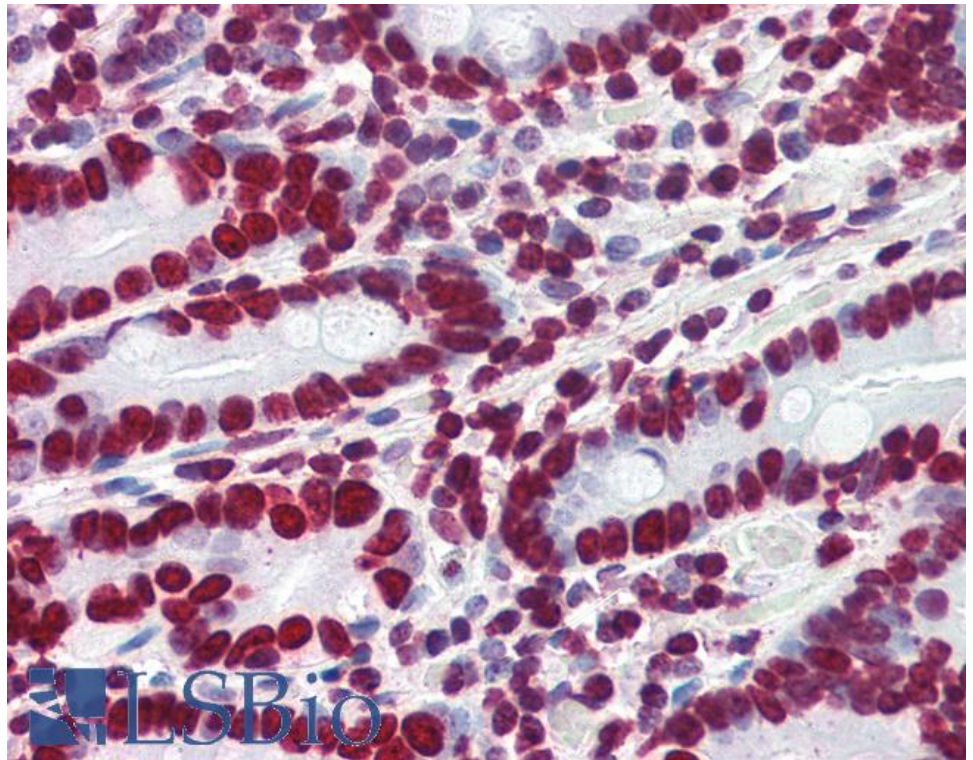
Knockdown of HMGA1 inhibits human breast cancer cell growth and metastasis in immunodeficient mice.

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.



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