

## UK Office

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

## EB05297 - Goat Anti-ELMO1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ELMO1, engulfment and cell motility 1 (ced-12 homolog, C. elegans), CED12, KIAA0281, ced-12 homolog 1, engulfment and cell motility 1, CED-12, ELMO-1, MGC126406, OTTHUMP00000207056, OTTHUMP00000207060

**Official Symbol:** ELMO1

**Accession Number(s):** NP\_055615.8; NP\_569709.1; NP\_001034548.1

**Human GeneID(s):** [9844](#)

**Non-Human GeneID(s):** 140580 (mouse)

**Important Comments:** This antibody is expected to recognise both human isoforms of this protein. NP\_569709.1 and NP\_001034548.1 represent the same isoform.

### Immunogen

Peptide with sequence PKEPSNYDFVYDCN, from the C Terminus of the protein sequence according to NP\_055615.8; NP\_569709.1; NP\_001034548.1.

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 83kDa band observed in Human Brain (Frontal Cortex) lysates, in Mouse and Rat Brain lysates and in lysates of cell line Jurkat (calculated MW of 83.8kDa according to NP\_055615.8). Recommended concentration: 0.1-0.3µg/ml. Primary incubation was 1 hour.

**Immunoprecipitation:** A customer found positive results in IP on Human promyelocytic leukemia cells (HL60). **This data is from a previous batch, not on sale.**

### Species Reactivity

**Tested:** Human, Mouse, Rat

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

### Specific References

**This antibody has been successfully used in Western blot in Zebrafish:**

Krishna Rakesh Sharma, Karl Heckler, Sandra J. Stoll, Jan-Luuk Hillebrands, Katharina Kynast, Esther Herpel, Stefan Porubsky, Marlies Elger, Boris Hadaschik, Karen Bieback, Hans-Peter Hammes, Peter P. Nawroth, and Jens Kroll  
ELMO1 protects renal structure and ultrafiltration in kidney development and under diabetic condition  
Sci Rep. 2016 Nov 16;6:37172  
PMID: 27849017

**This antibody has been successfully used in Western blot in Human:**

Schäker K, Bartsch S, Patry C, Stoll SJ, Hillebrands JL, Wieland T, Kroll J.

The bipartite rac1 Guanine nucleotide exchange factor engulfment and cell motility 1/dedicator of cytochrome c (elmo1/dock180) protects endothelial cells from apoptosis in blood vessel development.

J Biol Chem. 2015 Mar 6;290(10):6408

PMID: 25586182

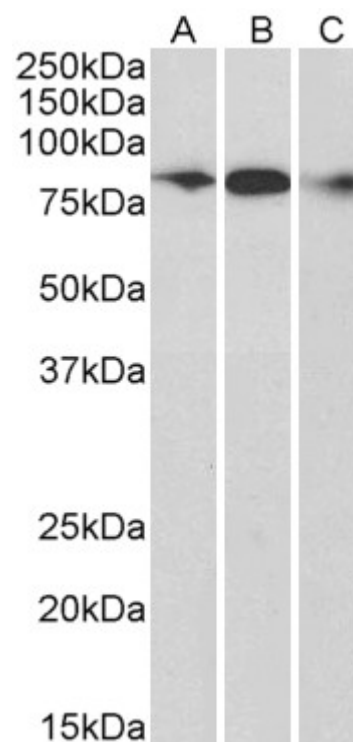
**This antibody has been successfully used in Western blot and IP in Zebrafish:**

Epting D, Wendik B, Bennewitz K, Dietz CT, Driever W, Kroll J.

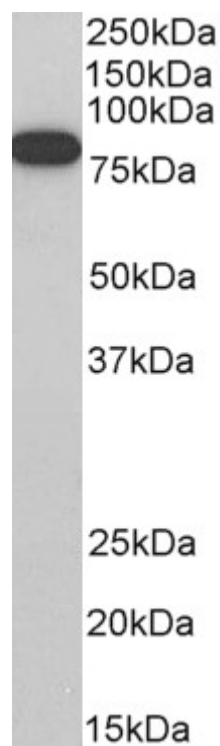
The Rac1 regulator ELMO1 controls vascular morphogenesis in zebrafish.

Circ Res. 2010 Jul 9;107(1):45-55.

PMID: 20466982



EB05297 (0.3 $\mu$ g/ml) staining of Human Frontal Cortex (A), Mouse (B) and Rat (C) Brain lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB05297 (0.3 $\mu$ g/ml) staining of Jurkat cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.