

#### International Office

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Research Use Only. Not for diagnostic or therapeutic use.

# EB07827 - Goat Anti-TGM2 Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

Principal Names: TGM2, transglutaminase 2 (C polypeptide,

protein-glutamine-gamma-glutamyltransferase), TG2, TGC, C polypeptide, TGase C, TGase-H, protein-glutamine-gamma-glutamyltransferase, tissue transglutaminase,

transglutaminase 2, transglutaminase C

Official Symbol: TGM2

Accession Number(s): NP\_004604.2; NP\_001310245.1; NP\_001310247.1;

NP\_001310246.1

Human GeneID(s): 7052

**Important Comments:** This antibody is expected to recognise iall reported isoforms.

# **Immunogen**

Peptide with sequence C-NFESDKLKAVKGFR, from the internal region (near the C Terminus) of the protein sequence according to NP\_004604.2; NP\_001310245.1; NP\_001310247.1; NP\_001310246.1.

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. 70kDa band observed in K562, 70+80kDa in Caco-2 and 70+85kDa in A549 cell lysates, and approx. 80kDa in Human Placenta lysates (calculated MW of 70.3kDa according to NP\_001310247.1 and 77.3kDa according to NP\_004604.2). All observed molecular weights are reported by other sources. Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.

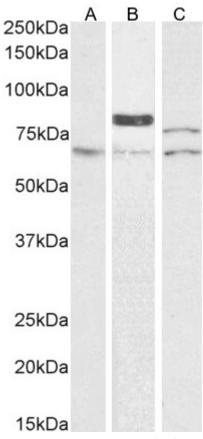
IHC: Paraffin embedded Human Placenta. Recommended concentration: 5-10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of A549 cells. Recommended concentration: 10ug/ml.

# **Species Reactivity**

Tested: Human

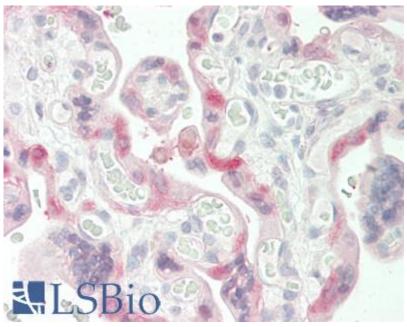
Expected from sequence similarity: Human



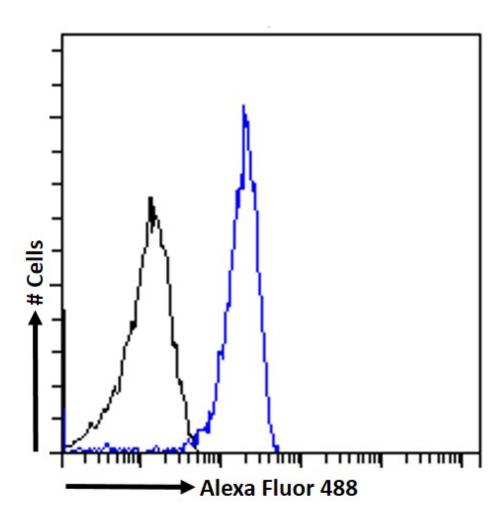
EB07827 (0.1μg/ml) staining of K562 (A) and A549 (B) and (0.3ug/ml) Caco-2 (C) cell lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



EB07827 (0.1μg/ml) staining of Human Placenta lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



EB07827 ( $5\mu g/ml$ ) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07827 Flow cytometric analysis of paraformaldehyde fixed A549 cells (blue line) permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488® conjugated secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.