

**Anti-HB EGF Rabbit Monoclonal Antibody**  
**Catalog # ABO15532****Specification**

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**Anti-HB EGF Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q99075</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-HB EGF Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

**Anti-HB EGF Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 1839

**Other Names**

Proheparin-binding EGF-like growth factor, Heparin-binding EGF-like growth factor, HB-EGF, HBEGF, Diphtheria toxin receptor, DT-R, HBEGF, DTR, DTS, HEGFL

**Calculated MW**

23 kDa KDa

**Application Details**

WB 1:500-1:2000

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human HB EGF

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-HB EGF Rabbit Monoclonal Antibody - Protein Information**

**Name** HBEGF

**Synonyms** DTR, DTS, HEGFL

### Function

Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor.

### Cellular Location

[Heparin-binding EGF-like growth factor]: Secreted, extracellular space. Note=Mature HB-EGF is released into the extracellular space and probably binds to a receptor

## Anti-HB EGF Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-HB EGF Rabbit Monoclonal Antibody - Images

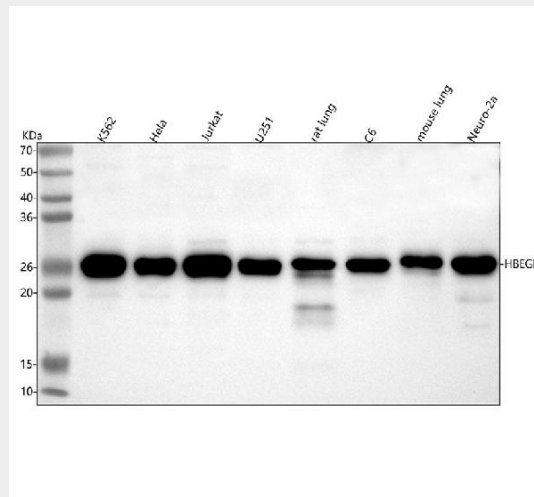


Figure 1. Western blot analysis of HBEGF using anti-HBEGF antibody (M01759-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates,  
Lane 2: human Hela whole cell lysates,  
Lane 3: human Jurkat whole cell lysates,  
Lane 4: human U251 whole cell lysates,  
Lane 5: rat lung tissue lysates,

Lane 6: rat C6 whole cell lysates,  
Lane 7: mouse lung tissue lysates,  
Lane 8: mouse Neuro-2a whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HBEGF antigen affinity purified monoclonal antibody (Catalog # M01759-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HBEGF at approximately 23 kDa. The expected band size for HBEGF is at 23 kDa.