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HBEGF Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP14829c

Specification

HBEGF Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q99075

HBEGF Antibody (Center) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HBEGF Antibody (Center) Blocking Peptide - 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

HBEGF Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

HBEGF Antibody (Center) Blocking Peptide - Images

HBEGF Antibody (Center) Blocking Peptide - Background

HBEGF may be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts and smooth muscle but not endothelial cells. It is able to bind EGF receptors 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.

HBEGF Antibody (Center) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Rahman, F.B., et al. Lab. Invest. 90(7):1033-1048(2010)Hamaoka, M., et al. J. Biochem. 148(1):55-69(2010)Smirnova, I.S., et al. Tsitologiia 52(5):357-363(2010)Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :