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PROK1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7872c

Specification

PROK1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P58294

PROK1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 84432

Other Names
Prokineticin-1, Endocrine-gland-derived vascular endothelial growth factor, EG-VEGF, Mambakine, PROK1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7872c was selected from the Center region of human PROK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PROK1 Antibody (Center) Blocking Peptide - Protein Information

Name PROK1

Function
Potently contracts gastrointestinal (GI) smooth muscle. Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. Has little or no effect on a variety of other endothelial and non-endothelial cell types. Induces proliferation and differentiation, but not migration, of enteric neural crest cells. Directly influences neuroblastoma progression by promoting the proliferation and migration of neuroblastoma cells. Positively regulates PTGS2 expression and prostaglandin synthesis. May play a role in placentation. May play a role in normal and pathological testis angiogenesis.

Cellular Location
Secreted.

Tissue Location
Localizes to glandular epithelium, stroma and vascular epithelial cells of first trimester decidua (at protein level). Up-regulated in first trimester decidua when compared with non- pregnant endometrium. Expressed in the steroidogenic glands, ovary, testis, adrenal and placenta.

PROK1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PROK1 Antibody (Center) Blocking Peptide - Images

PROK1 Antibody (Center) Blocking Peptide - Background

PROK1, Endocrine gland-derived vascular endothelial growth factor (EG-VEGF) induces proliferation, migration, and fenestration in capillary endothelial cells derived from endocrine glands. Its expression is induced by hypoxia and is restricted to the steroidogenic glands (ovary, testis, adrenal, and placenta). Its expression is often complementary to the expression of VEGF, suggesting that these molecules function in a coordinated manner.

PROK1 Antibody (Center) Blocking Peptide - References

Evans,J., Endocrinology 149 (6), 2877-2887 (2008)Morales,A., J. Steroid Biochem. Mol. Biol. 107 (1-2), 37-41 (2007)Ngan,E.S., Clin. Cancer Res. 13 (3), 868-875 (2007)