

PROK1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7872c**Specification**

PROK1 Antibody (Center) Blocking Peptide - Product InformationPrimary 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](/products/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)