

SPARC/Osteonectin, human recombinant protein
Secreted protein acidic and rich in cysteine, BM-40, ON
Catalog # PBV10834r**Specification****SPARC/Osteonectin, human recombinant protein - Product info**

Primary Accession [P09486](#)
Calculated MW **43.7 kDa** KDa

SPARC/Osteonectin, human recombinant protein - Additional Info

Gene ID **6678**
Gene Symbol **SPARC**

Other Names

Secreted protein acidic and rich in cysteine, BM-40, ON

Gene Source **Human**
Source **CHO cells**
Assay&Purity **SDS-PAGE; ≥97%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **APQQEALPDE TEVVEETVAE VTEVSVGANP
VQVEVGFEFDD GAEETEEVV AENPCQNHHC
KHGKVCCELDE NNTPMCVCQD PTSCPAIGE
FEKVCSDNK TFDSSCHFFA TKCTLEGTKK
GHKLHLDYIG PCKYIPPCLD SELTEFPLRM
RDWLKNVLVT LYERDEDNNL LTEKQKLRVK
KIHENEKRLE AGDHPVELLA RDFEKNYNMY
IFPVHWQFGQ LDQHPIDGYL SHTELAPLRA
PLIPMEHCTT RFFETCDLDN DKYIALDEWA
GCFGIKQKDI DKDLVI**

Target/Specificity

Osteonectin

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.6

SPARC/Osteonectin, human recombinant protein - 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](#)

SPARC/Osteonectin, human recombinant protein - Images

SPARC/Osteonectin, human recombinant protein - Background

SPARC/Osteonectin is a secreted, evolutionarily conserved collagen-binding glycoprotein that is involved in a variety of cellular activities. It is highly expressed in tissues undergoing morphogenesis, remodeling and wound repair. SPARC/Osteonectin and its related peptides bind to numerous proteins of the extracellular matrix (ECM), affect ECM protein expression, influence cellular adhesion and migration, and modulate growth factor-induced cell proliferation and angiogenesis. SPARC/Osteonectin consists of three domains; an N-terminal acidic region that binds calcium ions with low affinity, a module containing two EF-hand motifs that bind calcium with high affinity, and a cysteine-rich follistatin-like domain. Recombinant human SPARC/Osteonectin is a glycoprotein containing 286 amino acids that migrates at an apparent MW of 43.7 kDa by SDS-PAGE analysis due to the effect of glycosylation

SPARC/Osteonectin, human recombinant protein - References

Lankat-Buttgereit B., et al. FEBS Lett. 236:352-356(1988).
Swaroop A., et al. Genomics 2:37-47(1988).
Villarreal X.C., et al. Biochemistry 28:6483-6491(1989).
Young M.F., et al. Connect. Tissue Res. 24:17-28(1990).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.