

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 PTSCPAPIGE
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.