

## Recombinant human SPARC protein

Catalog No: #AP72077



Package Size: #AP72077-1 20ug #AP72077-2 100ug #AP72077-3 1mg

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## Description

Product Name	Recombinant human SPARC protein
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:18-303aaSequence Info:Full Length
Other Names	Basement-membrane protein 40 ;BM-40Osteonectin ;ONSecreted protein acidic and rich in cysteine
Accession No.	P09486
Uniprot	P09486
GeneID	6678;
Calculated MW	59.7 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	APQQEALPDETEVVEETVAEVTEVSVGANPVQVEVGEFDDGAEETEEVVAENPCQNHHCCKHGKVCELDEN NTPMCVCQDPTSCPAPIGEFEKVCSDNKTDFDSSCHFFATKCTLEGTKKGGHKLHLDYIGPCKYIPPCLDSELTE FPLRMRDWLKNVLVTLYERDEDNLLTEKQKLRVKKIHENEKRLKLEAGDHPVELLARDFEKNYNMYIFPVHWQF GQLDQHPIDGYLSHTELAFLRPLIPMEHCTTRFFETCDLNDNKYIALDEWAGCFGIKQKDKDLVI
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Appears to regulate cell growth through interactions with the Extracellular domain matrix and cytokines. Binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell mbranes. There are two calcium binding sites; an acidic domain that binds 5 to 8 Ca<sup>2+</sup> with a low affinity and an EF-hand loop that binds a Ca<sup>2+</sup> ion with a high affinity.

## References

"Structure of human osteonectin based upon analysis of cDNA and genomic sequences."Villarreal X.C., Mann K.G., Long G.L.Biochemistry 28:6483-6491(1989)Research Topic:Cardiovascular

Note: This product is for in vitro research use only