

VAP-1, human recombinant protein

Vascular Adhesion Protein-1, AOC3, SSAO, HPAO, Copper Amine Oxidase, Membrane Primary Amine Oxidase
Catalog # PBV10840r

Specification

VAP-1, human recombinant protein - Product info

Primary Accession [Q16853](#)
Calculated MW ~80.0 kDa KDa

VAP-1, human recombinant protein - Additional Info

Gene ID 8639
Gene Symbol VAP1

Other Names

Vascular Adhesion Protein-1, AOC3, SSAO, HPAO, Copper Amine Oxidase, Membrane Primary Amine Oxidase

Gene Source	Human
Source	CHO cells
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	GRGGDGGGEPs QLPHCPSVSP SAQPWTHPGQ SQLFADLSRE ELTAVMRFLT QRLGPGLVDA AQARPSDNCV FSVELQLPPK AAALAHLD RG SPPPARALA IVFFGRQPQP NVSELVVGPL PHPSYMRDVT VERHGGPLPY HRRPVLFQEY LDIDQMIFNR ELPQASGLLH HCCFYKHRGR NLVTMTTAPR GLQSGDRATW FGLYYNISGA GFFLHHVGLE LLVNHKALDP ARWTIQKV FY QGRYYDSL AQ LEAQFEAGLV NVVLIPDN GT GGSWSLKSPV PPGPAPPLQF YPQGPRFSVQ GSRVASSLWT FSFGLGAFSG PRIFDVR FQG ERLVYEISLQ EALAIYGGNS PAAMTTRYVD GGFGMGKYTT PLTRGVDCPY LATYVDWHFL LESQAPKTIR DAFCVFEQNQ GLPLRRHHSD LYSHYFGGLA ETVLVVRSMS TLLNYDYVWD TVFHPSGAIE IRFYATGYIS SAFLFGATGK YGNQVSEHTL GTVHTHSAHF KVDLDVAGLE NWVWAEDMVF VPMAVPWSPE HQLQRLQVTR KLEEMEEQAA FLVGSATPRY LYLASNHSNK WGHPRGYRIQ MLSFAGEPLP QNSSMARGFS WERYQLAVTQ RKEEEPSSSS VFNQNDPWAP TVDFSDFINN ETIAGKDLVA WVTAGFLHIP HAEDIPNTVT VGNGVGFFLR PYNFFDEDPS FYSADSIYFR GDQDAGACEV NPLACLPQAA ACAPDLPAFS HGGFSHN

Target/Specificity
VAP1

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 7.8.

VAP-1, 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](#)

VAP-1, human recombinant protein - Images**VAP-1, human recombinant protein - Background**

VAP-1 is a type II membrane cell adhesion protein belonging to the copper/topaquinone oxidase family. It is primarily expressed on the high endothelial venules of peripheral lymph nodes and on hepatic endothelia. VAP-1 can catalyze the oxidative deamination of low molecular weight amines, and plays an important role in the migration of lymphocytes to inflamed tissue. Inhibition of VAP-1 can protect against inflammation related damage to certain injured tissues. Additionally, VAP-1 can function as a significant prognostic marker for certain cancers and cardiovascular diseases. Recombinant VAP-1 is a mixture of monomeric and disulfide linked homodimeric forms of a 737 amino acid polypeptide corresponding to amino acids 27 to 763 of the VAP-1 precursor.

VAP-1, human recombinant protein - References

Zhang X., et al. Gene 179:279-286(1996).
Smith D.J., et al. J. Exp. Med. 188:17-27(1998).
Zhang Q., et al. Gene 318:45-53(2003).
Kaitaniemi S., et al. PLoS ONE 8:E54151-E54151(2013).
Ota T., et al. Nat. Genet. 36:40-45(2004).