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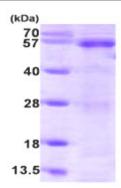
AR09238PU-S Human PTEN (1-403, His-tag) - Purified

| Alternate names: | 4, 5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, MMAC1, Mutated in multiple advanced cancers 1, Phosphatase and tensin homolog, Phosphatidylinositol-3, TEP1 |
|------------------|---|
| Quantity: | 20 µg |
| Concentration: | 0.5 mg/ml (determined by Bradford assay) |
| Background: | PTEN, also known as phosphatase and tensin homolog, is a tumor suppressor that is mutated in a large number of cancers at high frequency. This protein acts as both a dual-specificity protein phosphatase and a lipid phosphatase, removing the phosphate in the D3 position of the inositol ring from phosphatidylinositol 3,4,5-trisphosphate. PTEN negatively regulates intracellular levels of phosphatidylinositol-3,4,5-trisphosphate in cells and functions as a tumor suppressor by negatively regulating AKT/PKB signaling pathway. |
| Uniprot ID: | <u>P60484</u> |
| NCBI: | <u>NP_000305</u> |
| GenelD: | <u>5728</u> |
| Species: | Human |
| Source: | E. coli |
| Format: | State: Liquid purified protein Purity: >85% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM EDTA, 2 mM DTT, 100 mM NaCl, and 20% glycerol |
| Description: | Recombinant PTEN protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SSGLVPRGSH MTAIIKEIVS RNKRRYQEDG FDLDLTYIYP NIIAMGFPAE RLEGVYRNNI DDVVRFLDSK HKNHYKIYNL CAERHYDTAK FNCRVAQYPF EDHNPPQLEL IKPFCEDLDQ WLSEDDNHVA AIHCKAGKGR TGVMICAYLL HRGKFLKAQE ALDFYGEVRT RDKKGVTIPS QRRYVYYSY LLKNHLDYRP VALLFHKMMF ETIPMFSGGT CNPQFVVCQL KVKIYSSNSG PTRREDKFMY FEFPQPLPVC GDIKVEFFHK QNKMLKKDKM FHFWVNTFFI PGPEETSEKV ENGSLCDQEI DSICSIERAD NDKEYLVLTL TKNDLDKANK DKANRYFSPN FKVKLYFTKT VEEPSNPEAS SSTSVTPDVS DNEPDHYRYS DTTDSDPENE PFDEDQHTQI TKV Molecular weight: 49.3 kDa (423 aa) |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

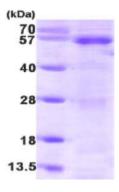
MP/20130116

Pictures:



Recombinant human PTEN, 1-403 aa, Histagged: 15% SDS-PAGE (3 μ g)

15% SDS-PAGE (3ug)



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