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AR09364PU-N Rat LRPAP1 / A2MRAP (His-tagged, myc-tagged) - Purified

Alternate names: Alpha-2-MRAP, Alpha-2-macroglobulin receptor-associated protein, Low density lipoprotein receptor-related protein-associated protein 1, RAP

Quantity: 0.25 mg

Concentration: 1,0 mg/ml

Background: Low density lipoprotein receptor-related protein-associated protein 1 (RAP) interacts with LRP1/alpha-2-macroglobulin receptor and glycoprotein 330. It is present on the cell surface forming a complex with the alpha 2 macroglobulin receptor heavy and light chains. Binds LRP1B; binding is followed by internalization and degradation. In complex with the alpha 2 MR or gp330, it may have some role in the pathogenesis of membrane glomerular nephritis.

Uniprot ID: Q99068

NCBI: XP_001058156

GeneID: 116565

Species: Rat

Source: E. coli

Format:
State: Lyophilised purified protein
Purity: >95% determined by SDS gelelectrophoresis
Buffer System: TBS, pH 7.5, 0.1% BSA, 0.09% NaN3
Reconstitution: Restore with 100 µl (100µg), 250 µl (250µg) or 500 µl (500µg) distilled water

Applications:
Protein standard in 1D and 2D SDS gelelectrophoresis.
Immunoblotting.
Receptor-binding studies.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description:
Rat his:RAP:c-myc fusion protein
Molecular weight: 40 kDa

Add. Information: Ligand binding to RAP is Ca2+ dependent and e.g. lipid receptors can be released from RAP by a buffer containing 10 mM EDTA (cf. Bajari et al. 2005, see ref. below). Furthermore, buffers containing phosphate should be avoided (it would form precipitates with Ca2+).

Storage:
Prior to reconstitution store at 2-8°C.
Following reconstitution store the antibody undiluted at -20°C for one month or (in aliquots) at -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Bajari TM, Lindstedt KA, Riepl M, Mirsky VM, Nimpf J, Wolfbeis OS, et al. A minimal binding domain of the low density lipoprotein receptor family. Biol Chem. 1998 Aug-Sep;379(8-9):1053-62. PubMed PMID: 9792438.
2. Hayashi H, Campenot RB, Vance DE, Vance JE. Glial lipoproteins stimulate axon growth of central nervous system neurons in compartmented cultures. J Biol Chem. 2004 Apr 2;279(14):14009-15. Epub 2004 Jan 6. PubMed PMID: 14709547.
3. Bajari TM, Strasser V, Nimpf J, Schneider WJ. LDL receptor family: isolation, production, and ligand binding analysis. Methods. 2005 Jun;36(2):109-16. PubMed PMID: 15893937.