



11-516-C025

Monoclonal Antibody to ARAP1 Purified Antibody (0.025 mg)

Clone:	ARAP1-2
Isotype:	Mouse IgG1
Specificity:	The antibody ARAP1-2 reacts with C-terminal part of ARAP1, a 160 kDa adaptor protein.
Immunogen:	His6-tagged protein corresponding to amino acids 1190-1450 of human ARAP1
Species Reactivity:	Human
Application:	Immunoprecipitation Western Blotting <i>Recommended dilution: 2 µg/ml</i> Immunocytochemistry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from ascites by protein-A affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Expiration:	See vial label
Lot Number:	See vial label
Background:	ARAP1 (angiotensin II type 1 receptor-associated protein) is an adaptor protein with ArfGAP and RhoGAP activities, containing five PH domains and ankyrin repeat. This adaptor seems to serve as a link between phosphoinositide- Arf-, and Rho-mediated cell signaling. ARAP1 supports the plasma membrane recycling of angiotensin II type 1 receptor (AT1) and is important also for cell-specific trafficking of pro-death receptor TRAIL-R1 (DR4) to the plasma membrane, thus promoting the TRAIL-induced apoptosis in certain cell types. ARAP1 also affects cell spreading.
References:	*Miura K, Jacques KM, Stauffer S, Kubosaki A, Zhu K, Hirsch DS, Resau J, Zheng Y, Randazzo PA: ARAP1: a point of convergence for Arf and Rho signaling. <i>Mol Cell</i> . 2002 Jan;9(1):109-19. *Guo DF, Chenier I, Tardif V, Orlov SN, Inagami T: Type 1 angiotensin II receptor-associated protein ARAP1 binds and recycles the receptor to the plasma membrane. <i>Biochem Biophys Res Commun</i> . 2003 Oct 31;310(4):1254-65. *Simova S, Klima M, Cermak L, Sourkova V, Andera L: Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane. <i>Apoptosis</i> . 2008 Mar;13(3):423-36.

For laboratory research only, not for drug, diagnostic or other use.