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Product datasheet for TA500893BM

RALBP1 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI11B2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI11B2
Applications:	FC, IF, IP, WB
Recommended Dilution:	WB 1:2000, IF 1:100, Flow 1:100, IP: 4ug/mL
Reactivity:	Human, Dog, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human RALBP1 (NP_006779) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	76.0 kDa
Gene Name:	ralA binding protein 1
Database Link:	NP_006779 Entrez Gene 19765 MouseEntrez Gene 84014 RatEntrez Gene 490548 DogEntrez Gene 10928 Human Q15311

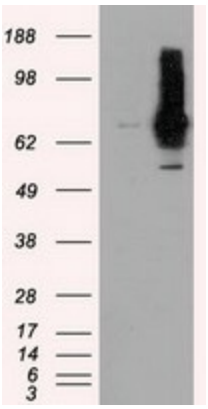
View online »

Background: Can activate specifically hydrolysis of GTP bound to RAC1 and CDC42, but not RALA. Mediates ATP-dependent transport of S-(2,4-dinitrophenyl)-glutathione (DNP-SG) and doxorubicin (DOX) and is the major ATP-dependent transporter of glutathione conjugates of electrophiles (GS-E) and DOX in erythrocytes. Can catalyze transport of glutathione conjugates and xenobiotics, and may contribute to the multidrug resistance phenomenon. Serves as a scaffold protein that brings together proteins forming an endocytotic complex during interphase and also with CDC2 to switch off endocytosis, One of its substrates would be EPN1/Epsin

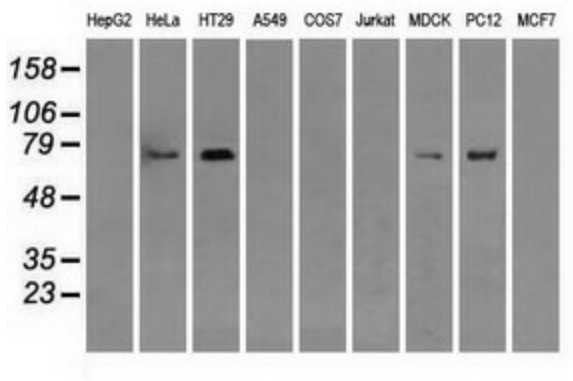
Synonyms: RIP1; RLIP1; RLIP76

Protein Pathways: Pancreatic cancer, Pathways in cancer

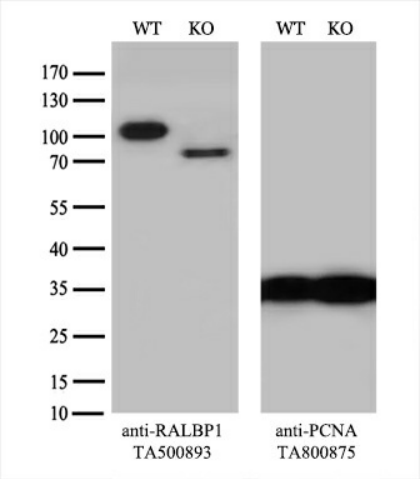
Product images:



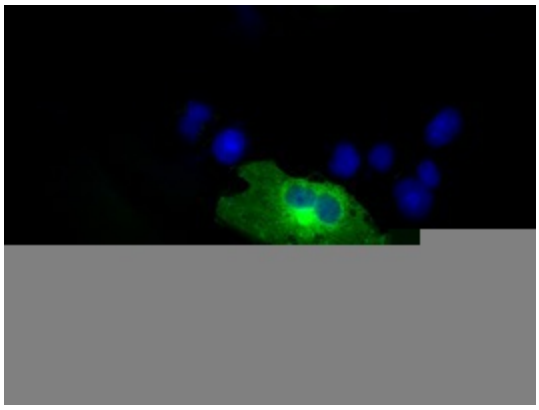
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY RALBP1 ([RC201524], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RALBP1. Positive lysates [LY402031] (100ug) and [LC402031] (20ug) can be purchased separately from OriGene.



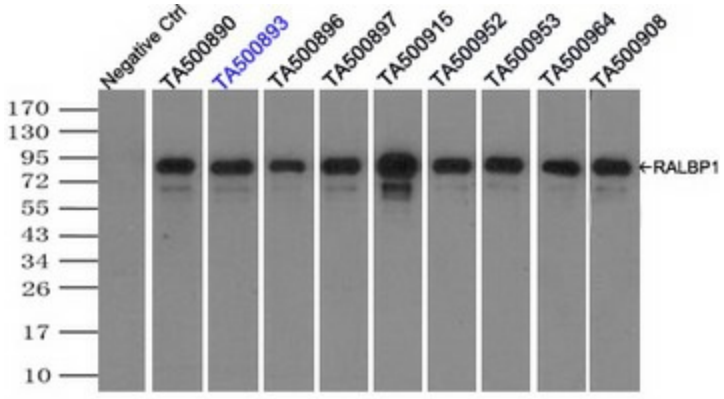
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-RALBP1 monoclonal antibody.



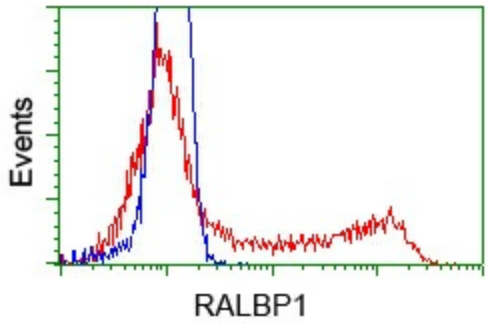
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and RALBP1-Knockout HeLa cells (KO, Cat# [LC833874]) were separated by SDS-PAGE and immunoblotted with anti-RALBP1 monoclonal antibody [TA500893] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



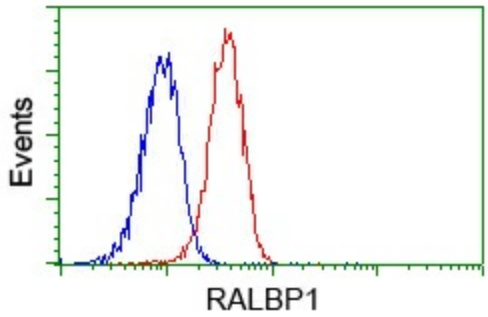
Anti-RALBP1 mouse monoclonal antibody ([TA500893]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY RALBP1 ([RC201524]).



Immunoprecipitation (IP) of RALBP1 by using TrueMab monoclonal anti-RALBP1 antibodies (Negative control: IP without adding anti-RALBP1 antibody.). For each experiment, 500ul of DDK tagged RALBP1 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-RALBP1 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



HEK293T cells transfected with either pCMV6-ENTRY RALBP1 ([RC201524]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-RALBP1 mouse monoclonal ([TA500893]), and then analyzed by flow cytometry.



Flow cytometric analysis of Jurkat cells, using anti-RALBP1 antibody ([TA500893]), (Red) compared to a nonspecific negative control antibody (TA50011) (Blue).