

## Product datasheet for **TA500952S**

### **RALBP1 Mouse Monoclonal Antibody [Clone ID: OTI1E2]**

#### **Product data:**

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI1E2   |
| Applications:           | IF, IHC, IP, WB  |
| Recommended Dilution:   | WB 1:2000, IHC 1:50, IF 1:100, IP: 4ug/mL  |
| Reactivity:             | Human, Mouse, Rat  |
| 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 and 0.02% sodium azide.   |
| Concentration:          | 0.8 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| 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:          | <a href="#">NP_006779</a><br><a href="#">Entrez Gene 19765 Mouse</a> <a href="#">Entrez Gene 84014 Rat</a> <a href="#">Entrez Gene 10928 Human</a><br><a href="#">Q15311</a> |



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**Background:**

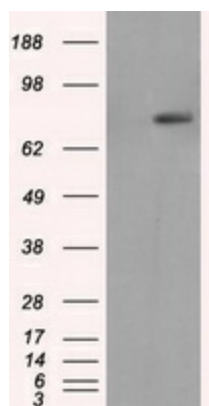
Can activate specifically hydrolysis of GTP bound to RAC1 and CDC42, but not RALA. Mediates ATP-dependent transport of S-(2,4-dinitrophenyl)-glutathione (DNP-SG) and doxorubicin (DOX) and is the major ATP-dependent transporter of glutathione conjugates of electrophiles (GS-E) and DOX in erythrocytes. 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:**

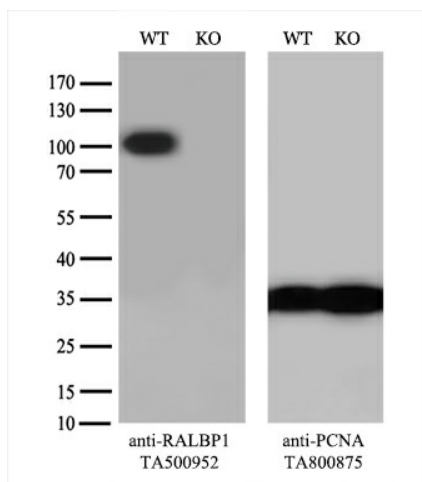
RIP1; RLIP1; RLIP76

**Protein Pathways:**

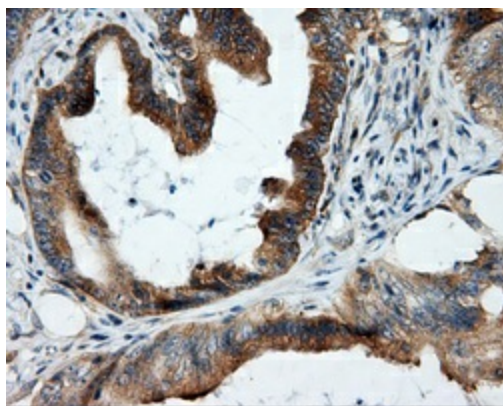
Pancreatic cancer, Pathways in cancer

**Product images:**


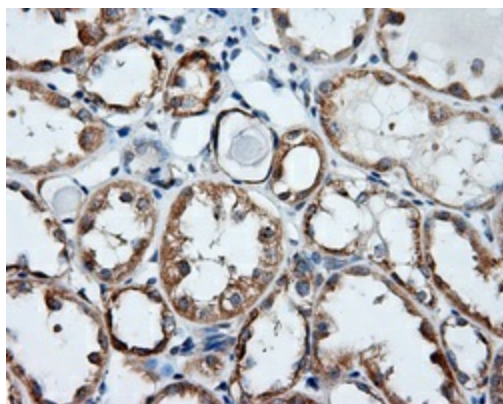
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY RALBP1 ([RC201524], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RALBP1. Positive lysates [LY402031] (100ug) and [LC402031]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



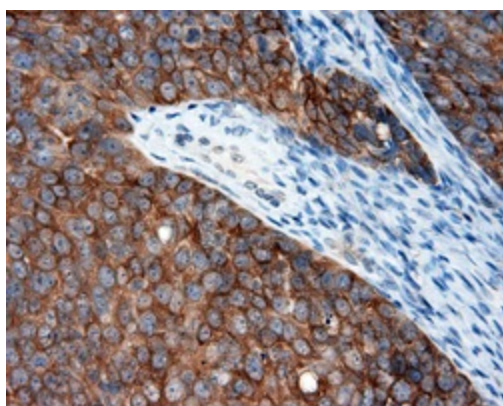
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and RALBP1-Knockout HeLa cells (KO, Cat# [LC833874]) were separated by SDS-PAGE and immunoblotted with anti-RALBP1 monoclonal antibody [TA500952] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



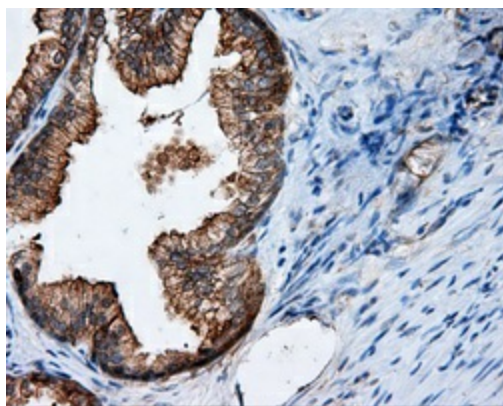
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-RALBP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500952], Dilution 1:50)



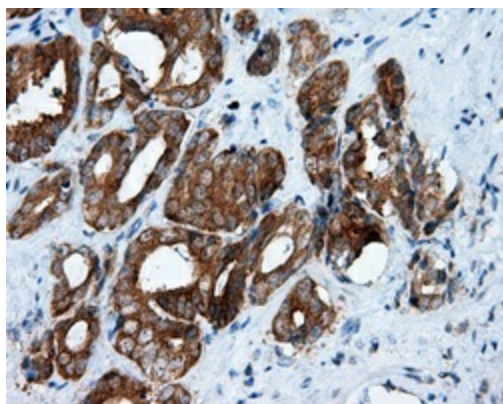
Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-RALBP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500952], Dilution 1:50)



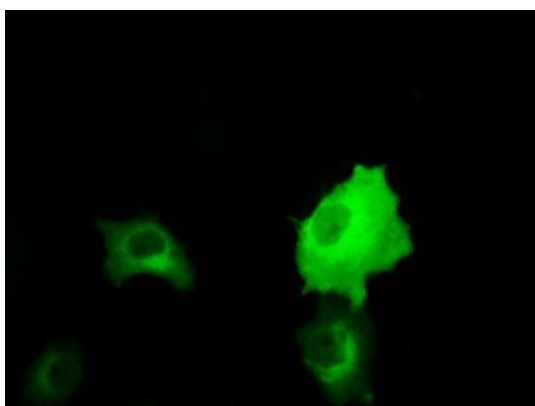
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-RALBP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500952], Dilution 1:50)



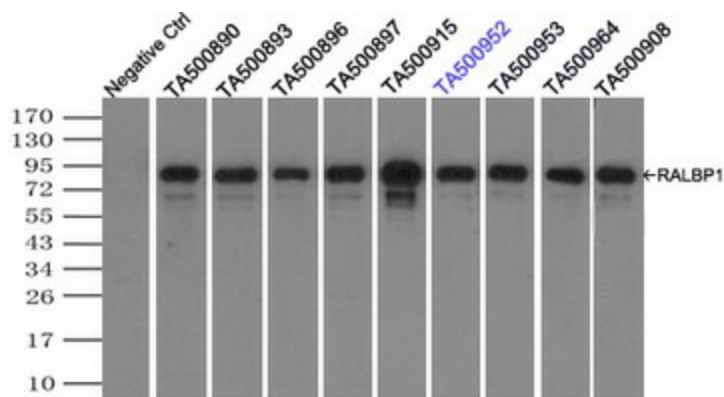
Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-RALBP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500952], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Carcinoma of prostate tissue using anti-RALBP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500952], Dilution 1:50)



Anti-RALBP1 mouse monoclonal antibody ([TA500952]) 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 immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.