

Product datasheet for **TA380935S**

RIP (RIPK1) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | ICC/IF, IHC, IP, WB |
| Recommended Dilution: | WB,1:500 - 1:2000 IHC,1:50 - 1:200 IF,1:50 - 1:200 IP,1:50 - 1:200 |
| Reactivity: | Human, Mouse, Rat |
| Modifications: | Unmodified |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 170-440 of human RIPK1/RIP (NP_003795.2). |
| Formulation: | Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3 |
| Concentration: | lot specific |
| Purification: | Affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C. Avoid freeze / thaw cycles. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 70kDa/75kDa |
| Gene Name: | receptor interacting serine/threonine kinase 1 |
| Database Link: | Entrez Gene 8737 Human Q13546 |



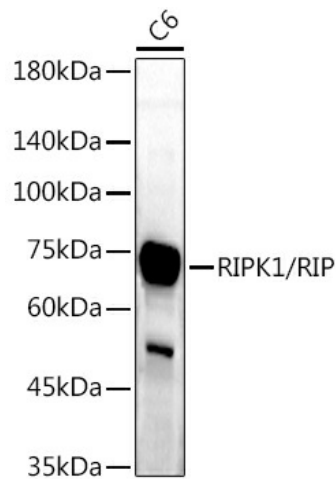
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Background:

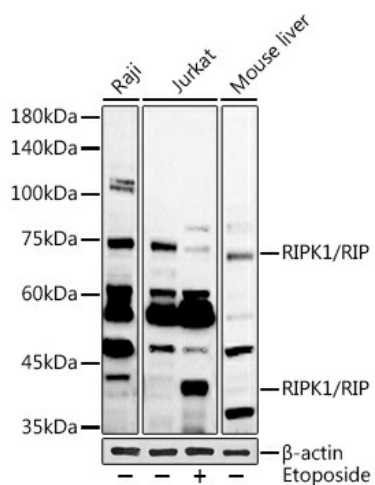
3'-5' DNA helicase and substrate-recognition component of the SCF(FBH1 E3 ubiquitin ligase complex that plays a key role in response to stalled/damaged replication forks. Involved in genome maintenance by acting as an anti-recombinogenic helicase and preventing extensive strand exchange during homologous recombination: promotes RAD51 filament dissolution from stalled forks, thereby inhibiting homologous recombination and preventing excessive recombination. Also promotes cell death and DNA double-strand breakage in response to replication stress: together with MUS81, promotes the endonucleolytic DNA cleavage following prolonged replication stress via its helicase activity, possibly to eliminate cells with excessive replication stress. Plays a major role in remodeling of stalled DNA forks by catalyzing fork regression, in which the fork reverses and the two nascent DNA strands anneal. In addition to the helicase activity, also acts as the substrate-recognition component of the SCF(FBH1 E3 ubiquitin ligase complex, a complex that mediates ubiquitination of RAD51, leading to regulate RAD51 subcellular location.

Synonyms:

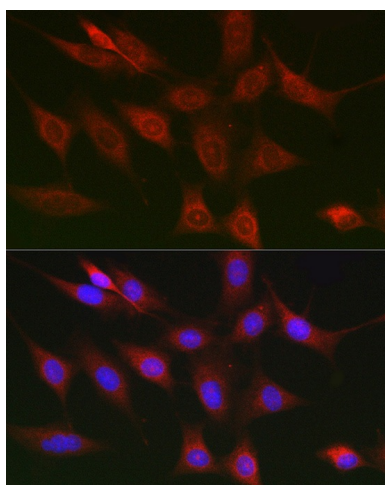
FLJ39204; OTTHUMP00000015955; RIP; RIP1

Product images:

Western blot analysis of extracts of C6 cells, using RIPK1/RIP antibody ([TA380935]) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Enhanced Kit . | Exposure time: 180s.



Western blot analysis of extracts of various cell lines, using RIPK1/RIP antibody ([TA380935]) at 1:1000 dilution. Jurkat cells were treated by Etoposide (25 uM) at 37°C for 5 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.



Immunofluorescence analysis of NIH/3T3 cells using RIPK1/RIP Rabbit pAb ([TA380935]) at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.