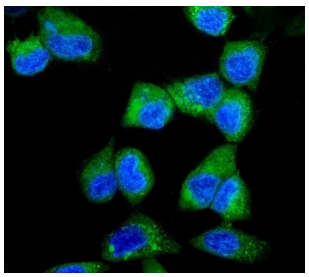
AIP4 Antibody / ITCH (RQ5693)

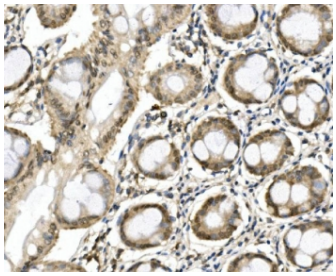
Catalog No.	Formulation	Size
RQ5693	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

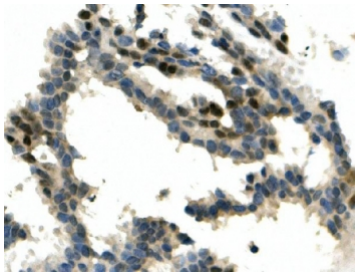
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q96J02
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 2-4ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This AIP4 antibody is available for research use only.



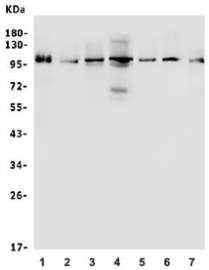
Immunofluorescent staining of FFPE human A431 cells with AIP4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



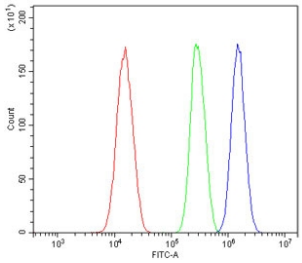
IHC staining of FFPE human rectal cancer with AIP4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer with AIP4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human K562, 2) human Raji, 3) rat C6, 4) mouse NIH 3T3, 5) human HepG2, 6) human A549 and 7) human ThP-1 lysate with AIP4 antibody. Predicted molecular weight: ~99 kDa.



Flow cytometry testing of human SiHa cells with AIP4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AIP4 antibody.

Description

ITCH is an ubiquitin-conjugating enzyme. This gene encodes a member of the Nedd4 family of HECT domain E3 ubiquitin ligases. HECT domain E3 ubiquitin ligases transfer ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, thus targeting specific proteins for lysosomal degradation. The encoded protein plays a role in multiple cellular processes including erythroid and lymphoid cell differentiation and the regulation of immune responses. Mutations in this gene are a cause of syndromic multisystem autoimmune disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Application Notes

Optimal dilution of the AIP4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K17-E358) was used as the immunogen for the AIP4 antibody.

Storage

After reconstitution, the AIP4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.