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Datasheet for ABIN7174397

anti-FAM105B antibody (AA 1-287)

1 Image

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | FAM105B |
| Binding Specificity: | AA 1-287 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This FAM105B antibody is un-conjugated |
| Application: | ELISA, Immunofluorescence (IF) |

Product Details

| | |
|-------------------|---|
| Immunogen: | Recombinant Human Ubiquitin thioesterase otulin protein (1-287AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | Antigen Affinity Purified |

Target Details

| | |
|-------------------|--|
| Target: | FAM105B |
| Alternative Name: | OTULIN (FAM105B Products) |
| Background: | Background: Deubiquitinase that specifically removes linear (Met-1-linked) polyubiquitin chains to substrates and acts as a regulator of angiogenesis and innate immune response |

Target Details

(PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:27523608, PubMed:27559085, PubMed:24726323, PubMed:24726327). Associates with the LUBAC complex via direct interaction with RNF31 and counteracts its action by cleaving linear polyubiquitin chains to substrates (PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:24726323, PubMed:24726327). Required during angiogenesis, craniofacial and neuronal development by regulating the canonical Wnt signaling together with the LUBAC complex (PubMed:23708998). Acts as a negative regulator of NF-kappa-B by counteracting activity of the LUBAC complex (PubMed:23746843, PubMed:23806334). Required for homeostasis of the LUBAC complex by restricting autoubiquitination of the LUBAC complex subunit RNF31 (PubMed:24726323). Some results have suggested that OTULIN function is restricted to homeostasis of the LUBAC complex, because it is not stably associated with TNF or NOD2 receptor signaling complexes (RSCs) (PubMed:26670046). However, further report have shown that it plays active roles in receptor signaling (PubMed:26997266, PubMed:27523608). Acts as a key negative regulator of inflammation by restricting spontaneous inflammation and maintaining immune homeostasis (PubMed:27523608). In myeloid cell, required to prevent unwarranted secretion of cytokines leading to inflammation and autoimmunity by restricting linear polyubiquitin formation (PubMed:27523608). Plays a key role in innate immune response by restricting linear polyubiquitin formation on RIPK2 in response to NOD2 stimulation, probably to limit NOD2-dependent proinflammatory signaling (PubMed:23806334).

Aliases: AIPDS antibody, Deubiquitinating enzyme otulin antibody, F105B_HUMAN antibody, Fam105b antibody, Family with sequence similarity 105, member B antibody, FLJ34884 antibody, GUM antibody, OTU deubiquitinase with linear linkage specificity antibody, OTULIN antibody, Protein FAM105B antibody, Ubiquitin thioesterase Gumby antibody

UniProt: [Q96BN8](#)

Application Details

Application Notes: Recommended dilution: IF:1:50-1:200,

Restrictions: For Research Use only

Handling

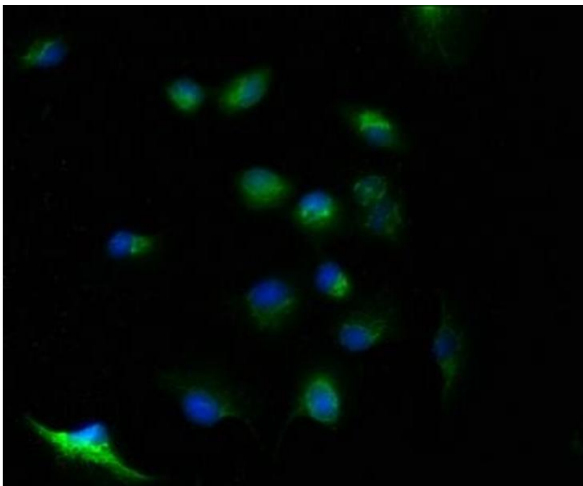
Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Handling

| | |
|--------------------|---|
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

Images



Immunofluorescence

Image 1. Immunofluorescence staining of U251 cells with ABIN7174397 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).