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FAM105B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5734c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96BN8
Other Accession	Q3UCV8, NP_612357.4
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27178
Calculated MW	40263
Antigen Region	99-128

Additional Information

Gene ID	90268
Other Names	Ubiquitin thioesterase otulin, Deubiquitinating enzyme otulin, OTU domain-containing deubiquitinase with linear linkage specificity, Ubiquitin thioesterase Gumby, OTULIN, FAM105B
Target/Specificity	This FAM105B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 99-128 amino acids from the Central region of human FAM105B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FAM105B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OTULIN {ECO:0000303|PubMed:23806334, ECO:0000312|HGNC:HGNC:25118}

Function

Deubiquitinase that specifically removes linear ('Met-1'- linked) polyubiquitin chains to substrates and acts as a regulator of angiogenesis and innate immune response (PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:24726323, PubMed:24726327, PubMed:26997266, PubMed:27523608, PubMed:27559085, PubMed:28919039, PubMed:30804083, PubMed:35170849, PubMed:35587511, PubMed:38630025, PubMed:38652464). 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 regulating the activity of the LUBAC complex (PubMed:23746843, PubMed:23806334). OTULIN function is mainly restricted to homeostasis of the LUBAC complex: acts by removing 'Met-1'-linked autoubiquitination of the LUBAC complex, thereby preventing inactivation of the LUBAC complex (PubMed:26670046). 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 role in innate immune response by restricting linear polyubiquitin formation on LUBAC complex in response to NOD2 stimulation, probably to limit NOD2- dependent pro-inflammatory signaling (PubMed:23806334).

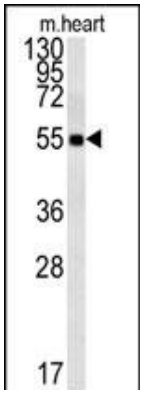
Cellular Location

Cytoplasm.

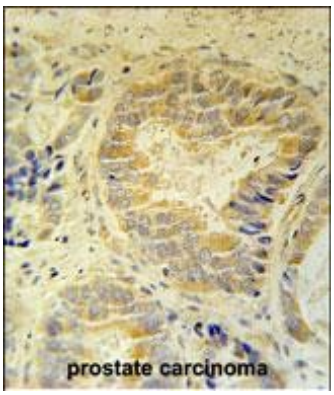
References

Gerhard, D.S., et al. Genome Res. 14 (10B), 2121-2127 (2004) :

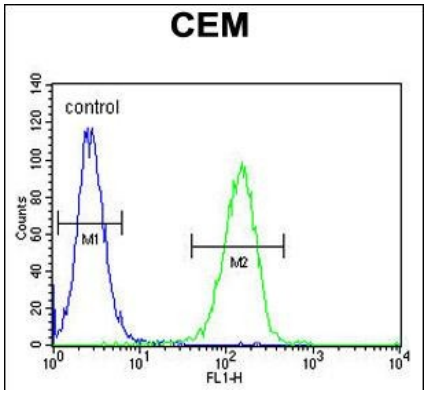
Images



FAM105B Antibody (Center) (Cat. #AP5734c) western blot analysis in mouse heart tissue lysates (15ug/lane).This demonstrates the FAM105B antibody detected FAM105B protein (arrow).



FAM105B Antibody (Center) (Cat. #AP5734c) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FAM105B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



FAM105B Antibody (Center) (Cat. #AP5734c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.