10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RNF139 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21873b

Specification

RNF139 Antibody (C-Term) - Product Information

Application	**WB,E**
Primary Accession	Q8WU17
Other Accession	Q5RBT7
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**75994**

RNF139 Antibody (C-Term) - Additional Information

Gene ID 11236

Other Names
E3 ubiquitin-protein ligase RNF139, 632-, RING finger protein 139, Translocation in renal carcinoma on chromosome 8 protein, RNF139 (HGNC:17023)

Target/Specificity
This RNF139 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 604-636 amino acids from human RNF139.

Dilution
WB~~1:2000

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
RNF139 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF139 Antibody (C-Term) - Protein Information

Name RNF139 (HGNC:17023)

Function E3-ubiquitin ligase; acts as a negative regulator of cell proliferation through mechanisms involving G2/M arrest and cell death (PubMed:10500182, PubMed:12032852, PubMed:17016439). Required for MHC class I ubiquitination in cells expressing the cytomegalovirus protein US2 before dislocation from the endoplasmic reticulum (ER) (PubMed:19720873). Affects SREBP processing by hindering the SREBP-SCAP complex translocation from the ER to the Golgi, thereby reducing SREBF2 target gene expression (PubMed:19706601, PubMed:20068067). Involved in the sterol-accelerated degradation of HMGCR (PubMed:22143767, PubMed:23223569). This is achieved through binding of RNF139 to INSIG1 and/or INSIG2 at the ER membrane (PubMed:22143767). In addition, interaction of RNF139 with AUP1 facilitates interaction of RNF139 with ubiquitin-conjugating enzyme UBE2G2 and ubiquitin ligase AMFR, leading to ubiquitination of HMGCR (PubMed:23223569). The ubiquitinated HMGCR is then released from the ER into the cytosol for subsequent destruction (PubMed:22143767, PubMed:23223569). Required for INSIG1 ubiquitination (PubMed:20068067). May be required for EIF3 complex ubiquitination (PubMed:20068067).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

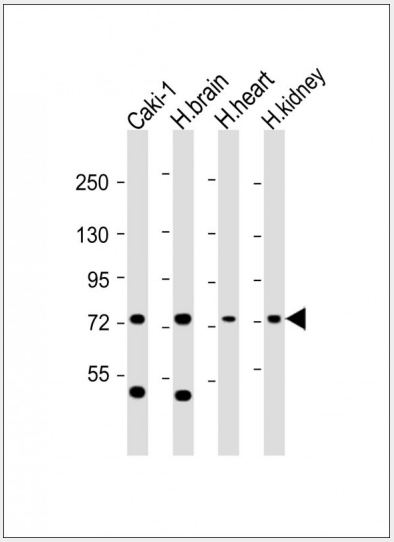
Tissue Location
Highly expressed in testis, placenta and adrenal gland. Moderate expression in heart, brain, liver, skeletal muscle and pancreas, and low expression in lung and kidney

RNF139 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RNF139 Antibody (C-Term) - Images



All lanes : Anti-RNF139 Antibody (C-Term) at 1:2000 dilution Lane 1: Caki-1 whole cell lysate Lane 2: human brain lysate Lane 3: human heart lysate Lane 4: human kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 76 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

RNF139 Antibody (C-Term) - Background

E3-ubiquitin ligase; acts as a negative regulator of the cell proliferation through mechanisms involving G2/M arrest and cell death. Required for MHC class I ubiquitination in cells expressing the cytomegalovirus protein US2 before dislocation from the endoplasmic reticulum (ER). Affects SREBP processing by hindering the SREBP/SCAP complex translocation from the ER to the Golgi, thereby reducing SREBF2 target gene expression. Required for INSIG1 ubiquitination. May be required for EIF3 complex ubiquitination. May function as a signaling receptor.

RNF139 Antibody (C-Term) - References

Gemmill R.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:9572-9577(1998).
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Lorick K.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:11364-11369(1999).
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