

RNF139 Recombinant antibody

Catalog Number: 83755-2-RR

Basic Information

Catalog Number:

83755-2-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21530

GenBank Accession Number:

BC064636

GeneID (NCBI):

11236

UNIPROT ID:

Q8WU17

Full Name:

ring finger protein 139

Calculated MW:

664 aa, 76 kDa

Observed MW:

76 kDa

Purification Method:

Protein A purification

CloneNo.:

240481G6

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : U2OS cells, U-87 MG cells

Background Information

The RNF139 gene (ring-finger protein 139), also known as TRC8 (translocation in renal carcinoma from chromosome 8), was first identified from a family with 3;8 chromosomal translocation and hereditary renal cell carcinoma and thyroid cancer (PMID:22689053). RNF139 encodes an endoplasmic reticulum (ER) protein with 10 transmembrane segments that contain a sterol-sensing domain and a RING finger motif encoding an E3 ubiquitin ligase (PMID: 19706601). Northern blot and dot blot show that RNF139 is highly expressed in the testis, placenta, and adrenal gland and is expressed at lower levels in the heart, brain, liver, skeletal muscle, and pancreas (PMID: 9689122). It is reported that TRC8 suppresses tumorigenesis by targeting heme oxygenase-1 (HO-1), an antioxidant enzyme highly expressed in various cancers, for ubiquitination and degradation (PMID:22689053). TRC8 is also involved in cholesterol and fatty acid biosynthesis that are transcriptionally regulated by the sterol response element binding proteins (SREBPs) (PMID:17016439). Acetylation, phosphorylation, and autoubiquitination are common post-translational modifications of RNF139 protein.

Storage

Storage:

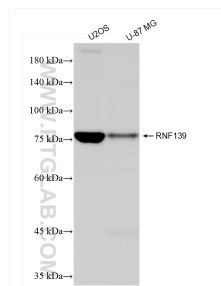
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

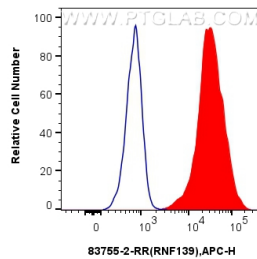
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83755-2-RR (RNF139 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug Rnf139 Recombinant Antibody (83755-2-RR, Clone:240481G6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).