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PTRF Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7421B

Specification

PTRF Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q6NZI2
Other Accession	P85125, O54724
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**43476**
Antigen Region	**363-390**

PTRF Antibody (C-term) - Additional Information

Gene ID 284119

Other Names
Polymerase I and transcript release factor, Cavin-1, PTRF {ECO:0000312|EMBL:AAH661231}

Target/Specificity
This PTRF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 363-390 amino acids from the C-terminal region of human PTRF.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

PTRF Antibody (C-term) - Protein Information

Name CAVIN1 (HGNC:9688)

Synonyms PTRF

Function Plays an important role in caveolae formation and organization. Essential for the formation of caveolae in all tissues (PubMed:18056712, PubMed:18191225, PubMed:19726876). Core component of the CAVIN complex which is essential for recruitment of the complex to the caveolae in presence of calveolin-1 (CAV1). Essential for normal oligomerization of CAV1. Promotes ribosomal transcriptional activity in response to metabolic challenges in the adipocytes and plays an important role in the formation of the ribosomal transcriptional loop. Dissociates transcription complexes paused by DNA-bound TTF1, thereby releasing both RNA polymerase I and pre-RNA from the template (By similarity) (PubMed:18056712, PubMed:18191225, PubMed:19726876). The caveolae biogenesis pathway is required for the secretion of proteins such as GASK1A (By similarity).

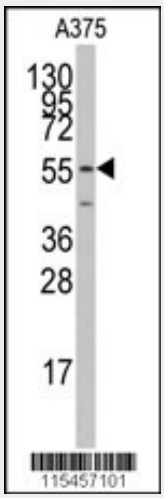
Cellular Location
Membrane, caveola. Cell membrane. Microsome. Endoplasmic reticulum {ECO:0000250|UniProtKB:P85125}. Cytoplasm, cytosol. Mitochondrion. Nucleus
Note=Translocates to the cytoplasm from the caveolae upon insulin stimulation (PubMed:17026959). Colocalizes with CAV1 in lipid rafts in adipocytes. Localizes in the caveolae in a caveolin-dependent manner (By similarity). {ECO:0000250|UniProtKB:O54724, ECO:0000269|PubMed:17026959}

PTRF 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

PTRF Antibody (C-term) - Images



Western blot analysis of anti-PTRF Antibody (N-term) Pab (Cat.#AP7421b) in A375 cell line lysates (35ug/lane). PTRF(arrow) was detected using the purified Pab.

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PTRF Antibody (C-term) - Background

Termination of transcription by RNA polymerase I involves pausing of transcription by TTF1, and the dissociation of the transcription complex, releasing pre-rRNA and RNA polymerase I from the template. PTRF is required for dissociation of the ternary transcription complex.

PTRF Antibody (C-term) - References

Aboulaich,N., Biochem. Biophys. Res. Commun. 350 (3), 657-661 (2006)
Aboulaich,N., Biochem. J. 383 (PT 2), 237-248 (2004)
Hasegawa,T., Biochem. J. 347 PT 1, 55-59 (2000)