

PTRF / CAVIN Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16751**Specification**

PTRF / CAVIN Antibody (C-Terminus) - Product Information

Application	IHC, IF, WB
Primary Accession	Q6NZI2
Other Accession	284119
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	43476

PTRF / CAVIN Antibody (C-Terminus) - Additional Information**Gene ID** 284119**Other Names**

PTRF, Cavin-1, CAVIN1, CAVIN, CGL4, FKSG13, TTF-I interacting peptide 12

Target/Specificity

At least three isoforms of PTRF are known to exist; this antibody detects all three isoforms. It is predicted to not cross-react with other members of the cavin family.

Reconstitution & Storage

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

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

PTRF / CAVIN Antibody (C-Terminus) - 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](http://www.uniprot.org/citations/18056712), PubMed: [18191225](http://www.uniprot.org/citations/18191225), PubMed: [19726876](http://www.uniprot.org/citations/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

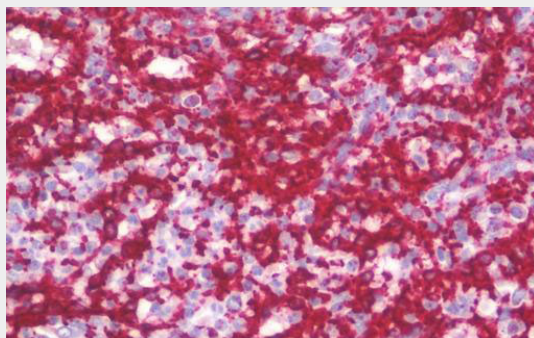
Membrane, caveola. Cell membrane. Microsome. Endoplasmic reticulum {ECO:0000250|UniProtKB:P85125}. Cytoplasm, cytosol. Mitochondrion. Nucleus Note=Translocates to the cytoplasm from the caveolae upon insulin stimulation (PubMed:17026959). Colocalizes with CAV1 in lipid rafts in adipocytes. Localizes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

PTRF / CAVIN Antibody (C-Terminus) - Protocols

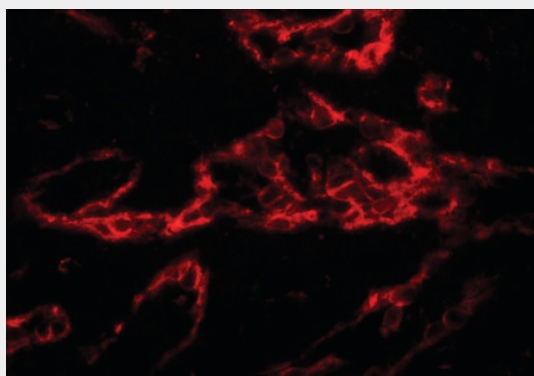
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

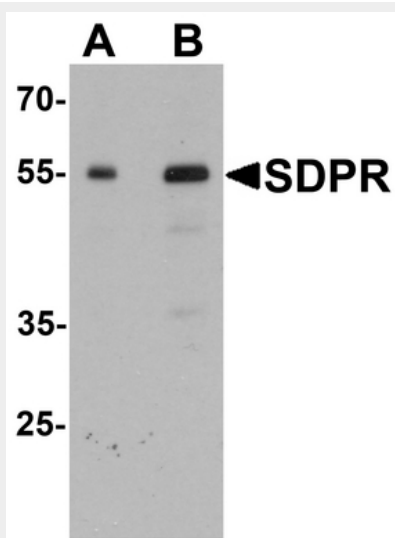
PTRF / CAVIN Antibody (C-Terminus) - Images



Anti-PTRF / CAVIN antibody IHC staining of human spleen.



Immunofluorescence of PTRF in human spleen tissue with PTRF antibody at 20 ug/ml.



Western blot analysis of PTRF in human spleen tissue lysate with PTRF antibody at (A) 0.5 and...

PTRF / CAVIN Antibody (C-Terminus) - Background

Plays an important role in caveolae formation and organization. Required for the sequestration of mobile caveolin into immobile caveolae. 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 / CAVIN Antibody (C-Terminus) - References

Wang Y.-G., et al. Submitted (OCT-2000) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Jansa P., et al. EMBO J. 17:2855-2864(1998).
Aboulaich N., et al. Biochem. J. 383:237-248(2004).