

PTRF antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI11078**Specification**

PTRF antibody - middle region - Product Information

Application	IHC, WB
Primary Accession	O54724
Other Accession	NM_008986 , NP_033012
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Dog
Predicted Host	Human, Mouse, Rat, Rabbit, Pig, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 43kDa KDa

PTRF antibody - middle region - Additional Information**Gene ID** 19285**Alias Symbol** **Cavin, Cav-p60, AW546441, 2310075E07Rik****Other Names**Polymerase I and transcript release factor, Cav-p60, Cavin-1, Ptrf
{ECO:0000312|MGI:MGI:1277968}**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 100 ul of distilled water. Final anti-PTRF antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

PTRF antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

PTRF antibody - middle region - Protein Information**Name** Cavin1**Synonyms** Ptrf {ECO:0000312|MGI:MGI:1277968}**Function**

Plays an important role in caveolae formation and organization. Essential for the formation of caveolae in all tissues (PubMed:18191225, PubMed:18840361, PubMed:18056712)

target="_blank">18056712, PubMed:30188967). Core component of the CAVIN complex which is essential for recruitment of the complex to the caveolae in presence of caveolin-1 (CAV1) (PubMed:19546242). Essential for normal oligomerization of CAV1 (PubMed:23652019). 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 (PubMed:27528195). Dissociates transcription complexes paused by DNA-bound TTF1, thereby releasing both RNA polymerase I and pre-RNA from the template (PubMed:9582279, PubMed:11139612, PubMed:10589839). The caveolae biogenesis pathway is required for the secretion of proteins such as GASK1A (PubMed:30188967).

Cellular Location

Membrane, caveola. Cell membrane. Microsome {ECO:0000250|UniProtKB:Q6NZI2}. Endoplasmic reticulum. Cytoplasm, cytosol Mitochondrion {ECO:0000250|UniProtKB:Q6NZI2}. Nucleus Note=Translocates to the cytoplasm from caveolae upon insulin stimulation (By similarity). Colocalizes with CAV1 in lipid rafts in adipocytes (PubMed:18056712). Localizes in the caveolae in a caveolin-dependent manner (PubMed:19546242). {ECO:0000250|UniProtKB:Q6NZI2, ECO:0000269|PubMed:18056712, ECO:0000269|PubMed:19546242}

Tissue Location

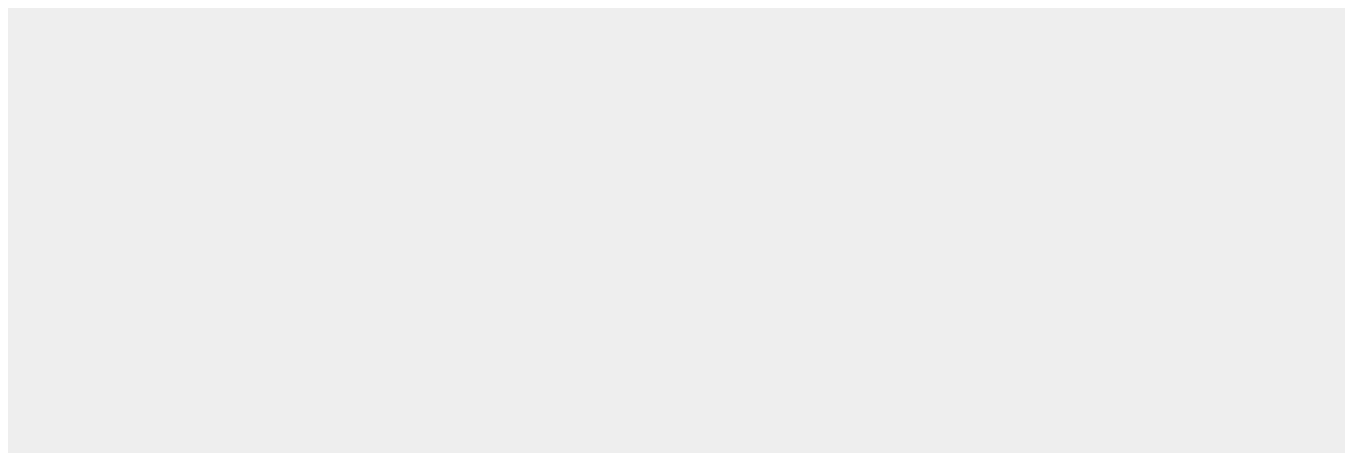
Expressed in the heart, stomach, adipose tissue and lung (at protein level). Expressed in testis, kidney, muscle, liver, spleen and brain.

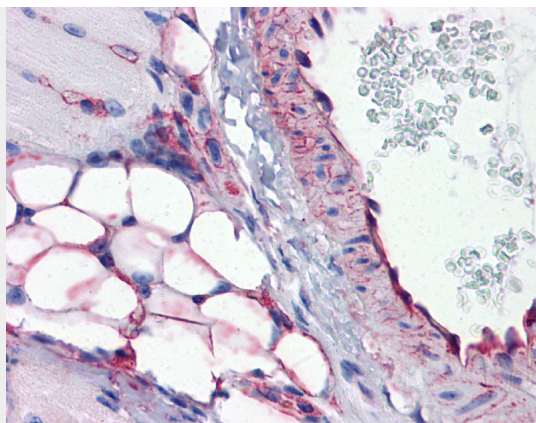
PTRF antibody - middle region - Protocols

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

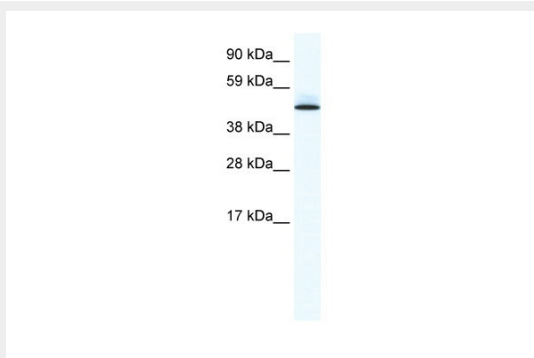
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTRF antibody - middle region - Images





IHC Information: Paraffin embedded mouse vessel and adipocytes (skeletal muscle) tissue, tested with an antibody Dilution of 5 µg/ml.



WB Suggested Anti-PTRF Antibody Titration: 0.625µg/ml

ELISA Titer: 1:312500

Positive Control: NIH/3T3 cell lysate

PTRF antibody - middle region - References

Miyoshi,K., et al., (2001) Genomics 71 (2), 150-155
Reconstitution and Storage: For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.