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PTRF antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI11078

Product Information

Application	WB, IHC
Primary Accession	O54724
Other Accession	NM_008986, NP_033012
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43954

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.

Protein Information

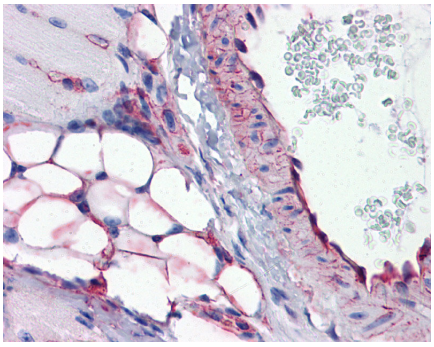
Name	Cavin1
Synonyms	Ptrf {ECO:0000312|MGI:MGI:1277968}
Function	Plays an important role in caveolae formation and organization. Essential for the formation of caveolae in all tissues (PubMed:18056712, PubMed:18191225, PubMed:18840361, PubMed:30188967). Core component of the CAVIN complex which is essential for recruitment of the complex to the caveolae in presence of calveolin-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:10589839, PubMed:11139612, PubMed:9582279). 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.

References

Miyoshi,K., et al., (2001) Genomics 71 (2), 150-155Reconstitution 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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.