10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PTRF Rabbit pAb

Catalog # AP98492

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Mouse
Predicted	Rat, Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTRF/RNA polymerase I and transcript release factor
Epitope Specificity	81-180/390
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PTRF/SDPR family.
SUBUNIT	Interacts with RNA polymerase I and TTF1. Binds the 3' end of pre-rRNA. Interacts with transcription factor ZNF148 (By similarity). Interacts with LIPE in the adipocyte cytoplasm.
Post-translational modifications	Phosphorylated. Present in active and inactive forms. Changes in phosphorylation pattern may alter activity (By similarity).Five truncated forms are found in the caveolae. These are thought to be the result of proteolysis and may be phosphorylation-dependent.
DISEASE	Defects in PTRF are the cause of congenital generalized lipodystrophy type 4 (CGL4) [MIM:613327]. It is a disorder characterized by the association of congenital generalized lipodystrophy with muscular dystrophy and cardiac anomalies. Congenital generalized lipodystrophy is characterized by a near complete absence of adipose tissue, extreme insulin resistance, hypertriglyceridemia, hepatic steatosis and early onset of diabetes.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Pausing of elongation complexes is mediated by the transcription termination factor TTF-I bound to the 'Sal box' terminator downstream of the rDNA transcription unit. PTRF is a Pol I and transcript release factor for dissociation of paused ternary complexes.

Additional Information

Gene ID	284119
Other Names	CAVN1_HUMAN; CAVIN1; Cavin-1; Polymerase I and transcript release factor; PTRF; CAVIN; CGL4; FKSG13; caveolae associated protein 1; congenital generalized lipodystrophy 4
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	PTRF Rabbit pAb
Function	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.

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