

Rabbit PTRF Polyclonal Antibody | anti-PTRF antibody

Phospho-PTRF (Tyr156) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329950	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (90%)	ELISA, Western Blot

PRODUCT SYNONYMS

PTRF; Polyclonal Antibody; Phospho-PTRF (Tyr156) Antibody; 2310075E07Rik; AW546441; Cavin 1; Cavin; Cavin-1; CAVIN1; CGL4; FKSG13; FLJ90031; MGC118550; OTTMUSP00000002049; Polymerase I and transcript release factor; Ptrf; PTRF_HUMAN; RNA polymerase I and transcript release factor; RP23-279L23.6; TTF I interacting peptide 12; anti-PTRF antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (90%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PTRF (Tyr156) Antibody detects endogenous levels of PTRF only when phosphorylated at Tyr156.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PTRF antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PTRF around the phosphorylation site of Tyr156.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated. Present in active and inactive forms. Changes in phosphorylation pattern may alter activity. Phosphorylation at Tyr-156 is essential for its function in the regulation of ribosomal transcriptional activity. Five truncated forms are found in the caveolae. These are thought to be the result of proteolysis and may be phosphorylation-dependent. Monoubiquitinated.
Subunit Structure	Component of the CAVIN complex composed of CAVIN1, CAVIN2, CAVIN3 and CAVIN4. Homotrimer (By similarity). Interacts with TTF1. Interacts with RNA polymerase I. Binds the 3' end of pre-rRNA. Interacts with transcription factor ZNF148 (By similarity). Interacts with LIPE in the adipocyte cytoplasm. Interacts with CAV1 and CAVIN3 (By similarity). Interacts with CAVIN2. Interacts with CAVIN4 and CAV3.
Similarity	The leucine-zipper domain 1 is essential for its localization in the caveolae. Belongs to the CAVIN family.
Subcellular Location	Membrane>Caveola. Cell membrane. Microsome. Endoplasmic reticulum. 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).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of PTRF (Phospho-Tyr156) using Serum treated COS7 whole cell lysates. -/+ means absence or presence of N peptide½non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)

Western blot analysis of extracts from various samples, using PTRF (Phospho-Tyr156) Antibody.Lane 1: Hela treated with blocking peptide.Lane 2: Hela;Lane 3: mouse lung;

ADDITIONAL INFORMATION

Related Product Information for anti-PTRF antibody	Plays an important role in caveolae formation and organization. Essential for the formation of caveolae in all tissues. 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). The caveolae biogenesis pathway is required for the secretion of proteins such as GASK1A (By similarity).
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	56749614
NCBI GeneID	284119
UniProt Accession #	Q6NZI2; O00535; Q6GMY1; Q96H74; Q9BT85; Q9HAP4; B2RAW7
Molecular Weight	390
NCBI Official Full Name	Polymerase I and transcript release factor
NCBI Official Synonym Full Names	polymerase I and transcript release factor
NCBI Official Symbol	PTRF
NCBI Official Synonym Symbols	CGL4; CAVIN; CAVIN1; FKSG13; cavin-1
NCBI Protein Information	polymerase I and transcript release factor; PTRF; TTF-I interacting peptide 12; RNA polymerase I and transcript release factor
UniProt Protein Name	Polymerase I and transcript release factor
UniProt Gene Name	PTRF
UniProt Entry Name	PTRF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptrf-antibody-peptide-elisa-western-blot-elisa/329950>