

Rabbit PTRF/CAVIN1 Polyclonal Antibody | anti-PTRF/CAVIN1 antibody

Anti-PTRF/CAVIN1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA20011	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PTRF/CAVIN1; Polyclonal Antibody; Anti-PTRF/CAVIN1 Antibody Picoband; Lymphocyte antigen 6A-2/6E-1; Ly-6A.2/Ly-6E.1; Stem cell antigen 1; SCA-1; T-cell-activating protein; TAP; Ly6a; Ly6; anti-PTRF/CAVIN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PTRF/CAVIN1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section), 1-2ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human PTRF/CAVIN1 recombinant protein (Position: D47-D390).
Subcellular Localization	Cell membrane, Lipid-anchor, GPI-anchor
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	T-cell activation.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 14. Flow Cytometry analysis of SiHa cells using anti-PTRF/CAVIN1 antibody (AAA20011). Overlay histogram showing SiHa cells stained with AAA20011 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PTRF/CAVIN1 Antibody (AAA20011, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 13. IF analysis of PTRF/CAVIN1 using anti-PTRF/CAVIN1 antibody (AAA20011). PTRF/CAVIN1 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PTRF/CAVIN1 Antibody (AAA20011) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-PTRF/CAVIN1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PTRF/CAVIN1 antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity
References	1. Hayashi, Y. K., Matsuda, C., Ogawa, M., Goto, K., Tominaga, K., Mitsuhashi, S., Park, Y.-E., Nonaka, I., Hino-Fukuyo, N., Haginoya, K., Sugano, H., Nishino, I. Human PTRF mutations cause secondary deficiency of caveolins resulting in muscular dystrophy with generalized lipodystrophy. J. Clin. Invest. 119: 2623-2633, 2009. 2. Hill, M. M., Bastiani, M., Luetterforst, R., Kirkham, M., Kirkham, A., Nixon, S. J., Walser, P., Abankawa, D., Oorschot, V. M. J., Martin, S., Hancock, J. F., Parton, R. G. PTRF-Cavin, a conserved cytoplasmic protein required for caveola formation and function. Cell 132: 113-124, 2008.3. Jansa, P., Mason, S. W., Hoffmann-Rohrer, U., Grummt, I. Cloning and functional characterization of PTRF, a novel protein which induces dissociation of paused ternary transcription complexes. EMBO J. 17: 2855-2864, 1998.

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

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AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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