

Product datasheet for **TA302058**

CD9 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, WB
Recommended Dilution:	WB: 1:1000, IF: 1:10~50, FC: 1:10~50
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This CD9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 115-145 amino acids from the Central region of human CD9.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25285 Da
Gene Name:	CD9 molecule
Database Link:	NP_001760 Entrez Gene 928 Human P21926

Background: CD9 is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It can modulate cell adhesion and migration and also trigger platelet activation and aggregation. In addition, the protein appears to promote muscle cell fusion and support myotube maintenance.



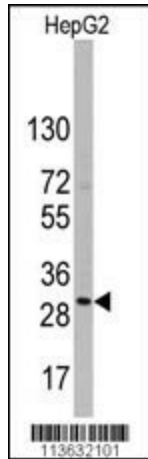
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Synonyms: BTCC-1; DRAP-27; MIC3; MRP-1; TSPAN-29; TSPAN29

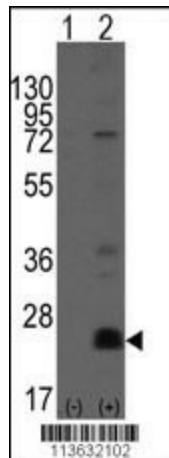
Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Hematopoietic cell lineage

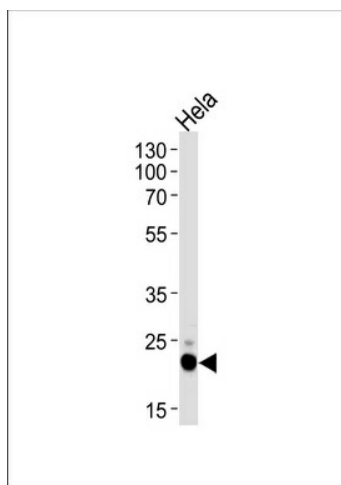
Product images:



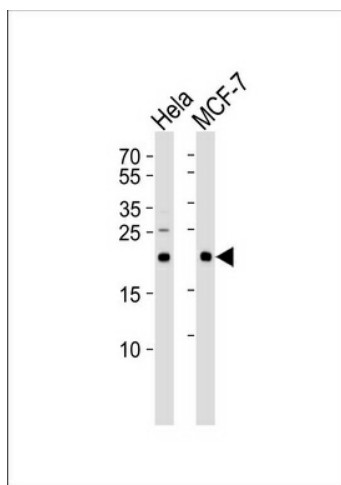
Western blot analysis of CD9 Antibody (Center) in HepG2 cell line lysates (35ug/lane). CD9 (arrow) was detected using the purified Pab.



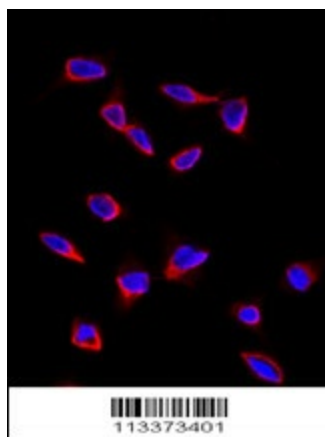
Western blot analysis of CD9 (arrow) using rabbit polyclonal CD9 Antibody (Center) (Cat.#TA302058). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CD9 gene (Lane 2) (Origene Technologies).



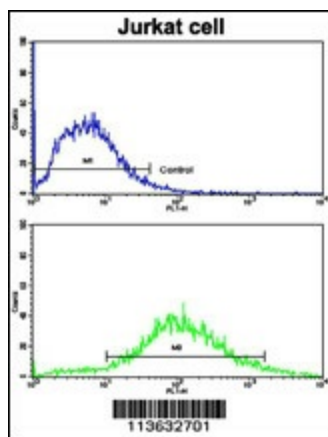
Western blot analysis of lysate from HeLa cell line, using CD9 Antibody (Center) (Cat. #TA302058). TA302058 was diluted at 1:1000. A goat anti-rabbit (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Western blot analysis of lysates from HeLa, MCF-7 cell line (from left to right), using CD9 Antibody (Center) (Cat. #TA302058). TA302058 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Immunofluorescence analysis of anti-CD9 Antibody (Center) in HeLa cells. 0.025 mg/ml primary antibody was followed by Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L). Alexa-Fluor-546 emits orange fluorescence. Blue counterstaining is DAPI.



Flow cytometric analysis of jurkat cells using CD9 Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.