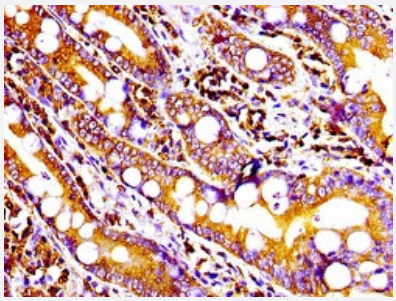
RecomAb™ Sm Size

CD9 recombinant monoclonal antibody, clone 3A2

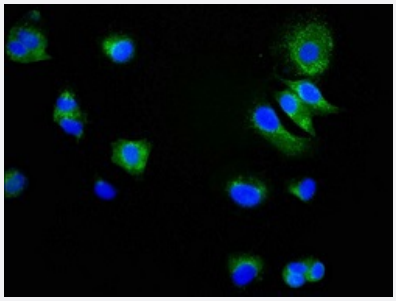
Catalog # RAB07947 Size 50 uL

Applications



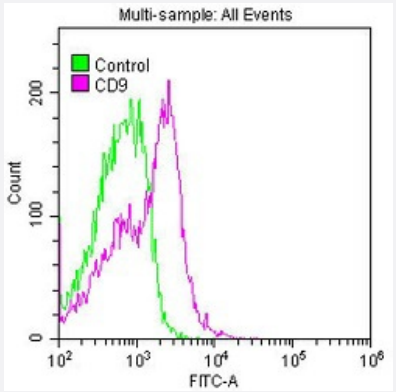
Immunohistochemistry

Immunohistochemical staining of human small intestine tissue with CD9 recombinant monoclonal antibody (diluated at 1:100).



Immunofluorescence

Immunofluorescent staining of MCF-7 cells with CD9 recombinant monoclonal antibody (diluated at 1:34). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Flow Cytometry

Flow cytometric analysis of Jurkat cells with CD9 recombinant monoclonal antibody(diluated at 1:50; purple line) and negative control (green line).

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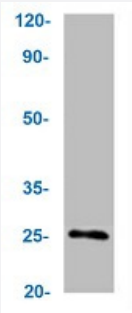

Western Blot (Cell lysate)

Western blot analysis of U87 whole cell lysate with CD9 recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CD9.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CD9.
Theoretical MW (kDa)	Calculated MW: 25 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry Immunofluorescence (1:30-1:200) Immunohistochemistry (1:50-1:500) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Applications

- Immunohistochemistry

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- Immunofluorescence

  Immunofluorescent staining of MCF-7 cells with CD9 recombinant monoclonal antibody (diluated at 1:34). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Flow Cytometry

  Flow cytometric analysis of Jurkat cells with CD9 recombinant monoclonal antibody(diluated at 1:50; purple line) and negative control (green line).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of U87 whole cell lysate with CD9 recombinant monoclonal antibody.

Gene Info — CD9

Entrez GeneID	928
Protein Accession#	P21926
Gene Name	CD9
Gene Alias	5H9, BA2, BTCC-1, DRAP-27, GIG2, MIC3, MRP-1, P24, TSPAN29
Gene Description	CD9 molecule
Omim ID	143030
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known a s the tetraspanin family. Most of these members are cell-surface proteins that are characterized b y 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 encoded prot ein 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 activa tion and aggregation. In addition, the protein appears to promote muscle cell fusion and support myotube maintenance. [provided by RefSeq

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Other Designations	5H9 antigen|CD9 antigen|CD9 antigen (p24)|OTTHUMP00000041574|OTTHUMP00000041576|antigen defined by monoclonal antibody 602-29|growth-inhibiting gene 2 protein|leukocyte antigen MIC3|motility related protein|motility related protein-1|p24 antigen

Pathway

- Hematopoietic cell lineage

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Infertility
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis

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