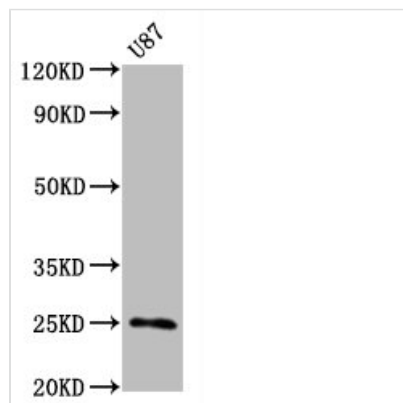




# CD9 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA004969A0HU
<b>Abbreviation</b>	CD9 antigen
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P21926
<b>Immunogen</b>	A synthesized peptide
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IHC, IF, FC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500, IF:1:30-1:200
<b>Relevance</b>	Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	CD9 antigen, 5H9 antigen, Cell growth-inhibiting gene 2 protein, Leukocyte antigen MIC3, Motility-related protein, MRP-1, Tetraspanin-29, Tspan-29, p24, CD9, CD9, MIC3, TSPAN29, GIG2
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cardiovascular
<b>Gene Names</b>	CD9
<b>Clone No.</b>	3A2

## Image



### Western Blot

Positive WB detected in U87 whole cell lysate

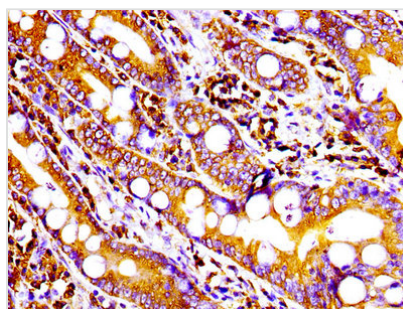
All lanes CD9 antibody at 0.55µg/ml

Secondary

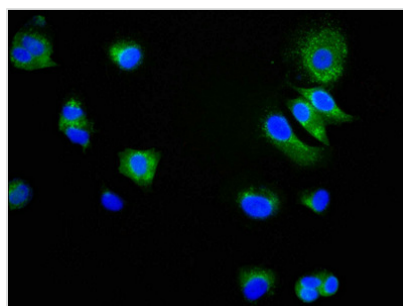
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 25 KDa

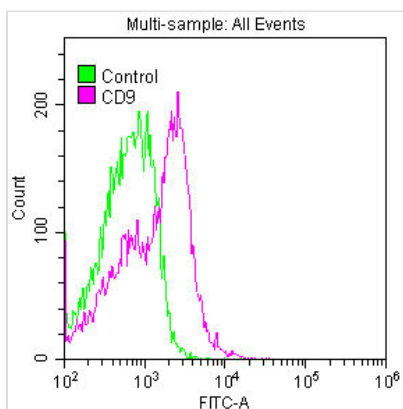
Observed band size: 25 KDa



IHC image of CSB-RA004969A0HU diluted at 1:100 and staining in paraffin-embedded human small intestine tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4<sup>o</sup> overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of MCF-7 cells with CSB-RA004969A0HU at 1:34, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4<sup>o</sup>. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Overlay histogram showing Jurkat cells stained with CSB-RA004969A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4<sup>o</sup>. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4<sup>o</sup>. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

## Description

The product CSB-RA004969A0HU is a recombinant CD9 monoclonal antibody. It was generated by transfecting the human CD9 monoclonal antibody gene-vector clones into the cell line for in vitro production and subsequent purification from the tissue culture supernatant (TCS) through affinity-chromatography. This CD9 antibody shows reactivity with human CD9 protein. And it has been tested for use in multiple applications, including ELISA, WB, IHC, FC, and IF.

CD9 is a tetraspanin membrane protein that exerts various roles in tissue development and disease pathogenesis, especially in cancer. Multiple cellular activities, such as adhesion, migration, proliferation, and survival, are influenced by CD9. CD9 has been frequently detected in blast cells of lymphoblastic leukemia/lymphoma and some subsets of acute myeloid leukemia (AML) including basophilic leukemia.