Recombinant CD166/ALCAM Monoclonal Antibody

catalog number: AN300586P

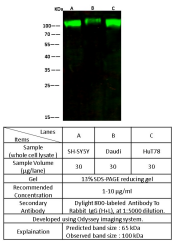
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Rat
Immunogen	Recombinant Rat CD166/ALCAM protein
Host	Rabbit
Isotype	IgG
Clone	11B8
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
WB	1:500-1:2000
IP	1-4 μL/mg of lysate

Data

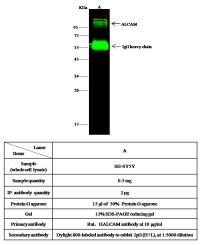


Lanes / Items	A	B	C
Sample (whole cell lysate)	SH-SY5Y	Daudi	HuT78
Sample Volume (μg/Lane)	30	30	30
Gel	11% SDS-PAGE reducing gel		
Recommended Concentration	1-10 μg/ml		
Secondary Antibody	DyLight 800-labeled Antibody to Rabbit IgG (H+L), at 1:5000 dilution.		
Developed using Odyssey Imaging system			
Explanation	Predicted band size : 65 kDa Observed band size : 100 kDa		

Western Blot with ALCAM Monoclonal Antibody at dilution of 1:500 dilution. Lane A: SH-SY5Y Whole Cell Lysate, Lane B: Daudi Whole Cell Lysate, Lane C: HuT78 Whole Cell Lysate, Lysates/proteins at 30 μg per lane.

Observed-MW:100 kDa

Calculated-MW:65 kDa



Lanes / Items	A
Sample (whole cell lysate)	SH-SY5Y
Sample quantity	0.5 mg
IP antibody quantity	2 μL
Protein G agarose	15 μl of 50% Protein G agarose
Gel	12% SDS-PAGE reducing gel
Primary antibody	Rat, ALCAM antibody at 10 μg/ml
Secondary antibody	DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution

Immunoprecipitation analysis using 2 μL anti-rat，hALCAM Monoclonal Antibody and 15 μl of 50 % Protein G agarose. Western blot was performed from the immunoprecipitate using hALCAM Monoclonal Antibody at a dilution of 1:100. Lane A:0.5 mg SH-SY5Y Whole Cell Lysate

Observed-MW:100 kDa

Calculated-MW:65 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

Toll-free: 1-888-852-8623
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Activated leukocyte cell adhesion molecule (ALCAM)/Cluster of differentiation (CD166) is a type I transmembrane cell adhesion molecule belonging to the Ig superfamily and a ligand for CD6 that is expressed on T lymphocytes. The extracellular domain of ALCAM contains five Ig-like domains (three Ig-like C2-type domains and two Ig-like V-type domains), of which the amino-terminal V1 domain is essential for ligand binding and ALCAM-mediated cell aggregation. ALCAM mediates both heterophilic (ALCAM-CD6) and homophilic (ALCAM-ALCAM) cell-cell interactions. ALCAM/CD6 interaction plays a role in T cell development and T cell regulation, as well as in the binding of T- and B-cells to activated leukocytes. Recently, homophilic (ALCAM-ALCAM) adhesion was shown to play important roles in tight cell-to-cell interaction and regulation of stem cell differentiation. While expressed in a wide variety of tissues, ALCAM is usually restricted to subsets of cells involved in dynamic growth and/or migration, including neural development, branching organ development, hematopoiesis, immune response and tumor progression. And CD166 is regarded as a potential novel breast cancer indicator and therapeutic target.

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