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ICAM5 Rabbit pAb

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Catalog # AP58488

Product Information

Application	WB
Primary Accession	Q9UMF0
Reactivity	Human, Mouse
Predicted	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97116
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ICAM5
Epitope Specificity	501-600/924
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ICAM5 is a member of the intercellular adhesion molecule (ICAM) family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein is expressed on the surface of telencephalic neurons and displays two types of adhesion activity, homophilic binding between neurons and heterophilic binding between neurons and leukocytes. It may be a critical component in neuron-microglial cell interactions in the course of normal development or as part of neurodegenerative diseases.

Additional Information

Gene ID	7087
Other Names	Intercellular adhesion molecule 5, ICAM-5, Telencephalin, ICAM5 (HGNC:5348)
Dilution	WB=1:500-2000,Flow-Cyt=0.2ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

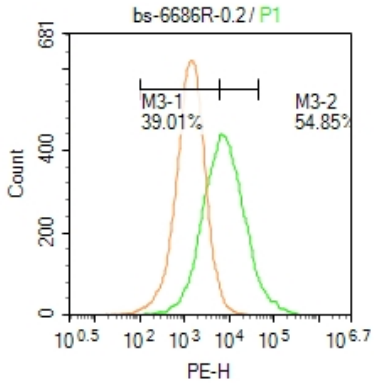
Protein Information

Name	ICAM5 (HGNC:5348)
Function	Cell adhesion molecule that functions as a receptor ligand of the signaling receptor ITGAL:ITGB2/LFA-1 (lymphocyte-function associated (LFA) molecule 1) ensuring neuron cell-leukocyte adhesion (PubMed:8995416). Creates homophilic cell adhesion promoting dendritogenesis and arborization of hippocampal neurons (PubMed:10893271).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q60625}; Single-pass membrane protein. Cell projection. Cell projection, uropodium. Cell projection, dendritic spine membrane {ECO:0000250|UniProtKB:Q60625}. Note=At uropodium and cell- cell contact sites creates homophilic adhesion
Tissue Location	Expressed on neurons in the most rostral segment of the mammalian brain, the telencephalon. Brain specific expression (PubMed:9828136). Within the brain, only expressed in regions derived from the telencephalon (PubMed:9828136). Highly expressed in the hippocampus and cerebral cortex, followed by the amygdala, caudate nucleus, occipital pole, frontal lobe, temporal lobe, and putamen (PubMed:9828136). Lower expressed in the corpus callosum, subthalamic nucleus, and thalamus (PubMed:9828136).

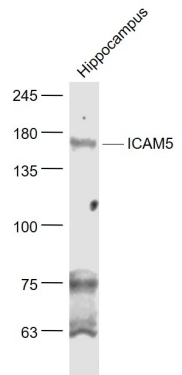
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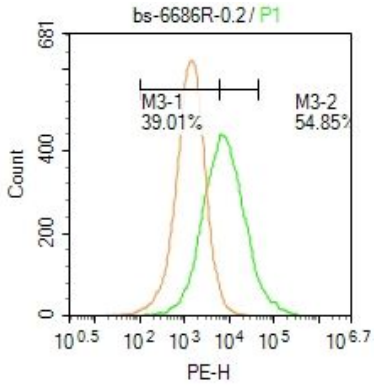
Images



Blank control: Hela.
Primary Antibody (green line): Rabbit Anti-ICAM5 antibody (AP58488)
Dilution: 1 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 0.2 µg /test.
Protocol
The cells were incubated in 5 %BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Sample:
Hippocampus (Mouse) Lysate at 40 ug
Primary: Anti- ICAM5 (AP58488) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 97 kD
Observed band size: 167 kD



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Dilution: 1 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.