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PRODUCT DATASHEET

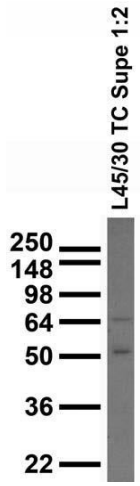
Anti-SynCAM1 Antibody

Product Details

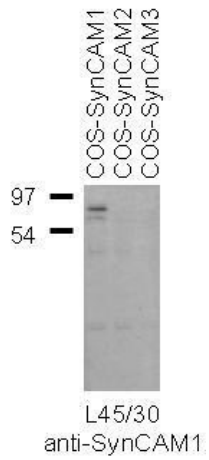
Available Variants	100 µL (SKU:75-120)
Conjugate	Unconjugated
Isotype	IgG1
Clone	L45/30
Gene Name	Cadm1 Igsf4 Necl2 Ra175 Syncam SynCam1 Tslc1
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.47
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	Fusion protein amino acids 257-388 of mouse SynCAM1 (accession number Q8R5M8), recognizes 1.4b isoform only (epitope narrowed to GLTQLPNSAEELDSEDLS) produced recombinantly in E. Coli
Specificity	No cross-reactivity with SynCAM2 or SynCAM3
Molecular Weight	50 kDa
Quality Control	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to

	removing the cap.
Antibody Registry ID	AB_2068036
UniProt ID	Q8R5M8 UniProt Summary: Mediates homophilic cell-cell adhesion in a Ca(2+)-independent manner. Also mediates heterophilic cell-cell adhesion with CADM3 and NECTIN3 in a Ca(2+)-independent manner. Interaction with CRTAM promotes natural killer (NK) cell cytotoxicity and interferon-gamma (IFN-gamma) secretion by CD8+ T-cells in vitro as well as NK cell-mediated rejection of tumors expressing CADM1 in vivo. In mast cells, may mediate attachment to and promote communication with nerves. CADM1, together with MITF, is essential for development and survival of mast cells in vivo. By interacting with CRTAM and thus promoting the adhesion between CD8+ T-cells and CD8+ dendritic cells, regulates the retention of activated CD8+ T-cell within the draining lymph node. Required for the intestinal retention of intraepithelial CD4+ CD8+ T-cells and, to a lesser extent, intraepithelial and lamina propria CD8+ T-cells and CD4+ T-cells. Interaction with CRTAM promotes the adhesion to gut-associated CD103+ dendritic cells, which may facilitate the expression of gut-homing and adhesion molecules on T-cells and the conversion of CD4+ T-cells into CD4+ CD8+ T-cells. Acts as a synaptic cell adhesion molecule and plays a role in the formation of dendritic spines and in synapse assembly. May be involved in neuronal migration, axon growth, pathfinding, and fasciculation on the axons of differentiating neurons. May play diverse roles in the spermatogenesis including in the adhesion of spermatocytes and spermatids to Sertoli cells and for their normal differentiation into mature spermatozoa.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	54725

Product Images



Adult whole rat brain homogenate immunoblot.



Transfected cell immunoblot: extracts of COS-7 cells transiently transfected with SynCAM1, SynCAM2 or SynCAM3 plasmids and probed with L45/30 TC supe. Image courtesy of Dr. Philip Washbourne, Institute of Neuroscience, University of Oregon.