

Dscam Rabbit pAb

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Catalog # AP54510

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O60469
Reactivity	Rat, Mouse
Predicted	Dog, Human, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	222260
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Dscam
Epitope Specificity	301-400/2012
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	Secreted and Cell membrane. Localized in the soma, cell membrane, axon and growth cone of dissociated commissural axons.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DSCAM is a cell adhesion molecule belonging to the immunoglobulin superfamily. It is predominantly expressed in brain and contains six Fibronectin type-III domains and ten Ig-like C2-type domains. In mice, DSCAM is responsible for regulating isoneuronal self-avoidance, the tendency for sister arbors to avoid crossing each other and to spread out proportionately over an area. Isoneuronal self-avoidance is important for proper terminal branching (arborization). In some cell types, DSCAM also mediates heteroneuronal self-avoidance, which is important for the regular spacing of cell bodies and the prevention of hyperfasciculation. In humans, two DSCAM isoforms exist due to alternative splicing. The long isoform (also known as CHD2-42) is a single pass type I membrane protein, while the short isoform (CHD2-52), which lacks the C-terminal transmembrane containing region (amino acids 1572-2012), is secreted.

Additional Information

Gene ID	1826
Other Names	Cell adhesion molecule DSCAM, CHD2, Down syndrome cell adhesion molecule, DSCAM
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

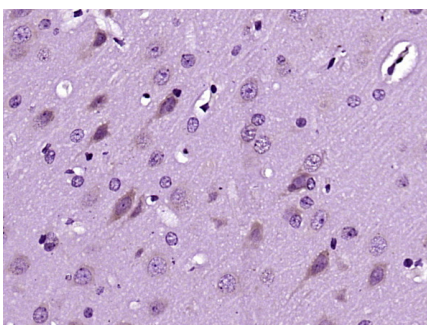
Protein Information

Name	DSCAM
Function	Cell adhesion molecule that plays a role in neuronal self- avoidance. Promotes repulsion between specific neuronal processes of either the same cell or the same subtype of cells. Mediates within retinal amacrine and ganglion cell subtypes both isoneuronal self- avoidance for creating an orderly dendritic arborization and heteroneuronal self-avoidance to maintain the mosaic spacing between amacrine and ganglion cell bodies (PubMed: 10925149). Receptor for netrin required for axon guidance independently of and in collaboration with the receptor DCC. Might also collaborate with UNC5C in NTN1- mediated axon repulsion independently of DCC (By similarity). In spinal cord development plays a role in guiding commissural axons projection and pathfinding across the ventral midline to reach the floor plate upon ligand binding (PubMed: 18585357 , PubMed: 19196994). Mediates intracellular signaling by stimulating the activation of MAPK8 and MAP kinase p38 (PubMed: 18585357 , PubMed: 19196994). Adhesion molecule that promotes lamina-specific synaptic connections in the retina: expressed in specific subsets of interneurons and retinal ganglion cells (RGCs) and promotes synaptic connectivity via homophilic interactions (By similarity).
Cellular Location	[Isoform Short]: Secreted.
Tissue Location	Primarily expressed in brain.

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Dscam) Polyclonal Antibody, Unconjugated (AP54510) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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