DSC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DSC3, Polyclonal Antibody
Full Product Name	DSC3, CT (DSC3, CDHF3, DSC4, Desmocollin-3, Cadherin family member 3, Desmocollin-4, HT-CP) (MaxLight 750)
Product Gene Name	anti-DSC3 antibody
Product Synonym Names	DSC3; CDHF3; DSC4; Desmocollin-3; Cadherin family member 3; Desmocollin-4; HT-CP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	99,969 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (28570052..28622781, complement). Location: 18q12.1
OMIM	600271
3D Structure	ModBase 3D Structure for Q14574
Immunogen	DSC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 821-850 amino acids from the C-terminal region of human DSC3.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-DSC3 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-DSC3 antibody	Western Blot (WB), FLISA
Application Notes for anti-DSC3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DSC3 antibody	The protein encoded by this gene is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome cell-cell junction and are required for cell adhesion and desmosome formation. The desmosomal family members are arranged in two clusters on chromosome 18, occupying less than 650 kb combined. Alternative splicing results in two transcript variants encoding distinct isoforms.

Product References and Citations for anti-DSC3 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010): Spindler, V., et al. J. Biol. Chem. 284(44):30556-30564(2009) Ayub, M., et al. Am. J. Hum. Genet. 85(4):515-520(2009) Aoyama, Y., et al. Exp. Dermatol. 18(4):404-408(2009).
Other Notes	Small volumes of anti-DSC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DSC3 purchase	MBS6293552 is an antibody targeting DSC3. Also known as DSC3, CT (DSC3, CDHF3, DSC4, Desmocollin-3, Cadherin family member 3, Desmocollin-4, HT-CP) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSC3. It may not necessarily be applicable to this product.

NCBI GI #	148539848
NCBI GeneID	1825
NCBI Accession #	NP_077741.2
NCBI Related Accession #	NP_001932.2
UniProt Primary Accession #	Q14574
UniProt Secondary Accession #	Q14200; Q9HAZ9; A6NN35
UniProt Related Accession #	Q14574; Q9HAX1
GenBank Nucleotide #	NM_024423.2
NCBI Official Full Name	desmocollin-3 isoform Dsc3b preproprotein
NCBI Official Synonym Full Names	desmocollin 3
NCBI Official Symbol	DSC3
NCBI Official Synonym Symbols	DSC; DSC1; DSC2; DSC4; CDHF3; HT-CP
UniProt Protein Name	Desmocollin-3
UniProt Synonym Protein Names	Cadherin family member 3; Desmocollin-4; HT-CP
Protein Family	Desmocollin
UniProt Gene Name	DSC3
UniProt Synonym Gene Names	CDHF3; DSC4
UniProt Entry Name	DSC3_HUMAN
NCBI Protein Information	desmocollin-3; desmocollin-4; cadherin family member 3
Research Articles on DSC3	**1.** These findings demonstrate that IgG autoantibodies against an additional component of the desmosomes, Dsc3, induce loss of keratinocyte adhesion and thus may contribute to blister formation in pemphigus.
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