SIM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIM1, Polyclonal Antibody
Full Product Name	SIM1, NT (SIM1, BHLHE14, Single-minded homolog 1, Class E basic helix-loop-helix protein 14) (MaxLight 405)
Product Gene Name	anti-SIM1 antibody
Product Synonym Names	SIM1; BHLHE14; Single-minded homolog 1; Class E basic helix-loop-helix protein 14
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	85,515 Da
OMIM	603128
3D Structure	ModBase 3D Structure for P81133
Immunogen	SIM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SIM1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-SIM1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SIM1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SIM1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SIM1 antibody	SIM1 and SIM2 genes are Drosophila single-minded (sim) gene homologs. SIM1 transcript was detected only in fetal kidney out of various adult and fetal tissues tested. Since the sim gene plays an important role in Drosophila development and has peak levels of expression during the period of neurogenesis,it was proposed that the human SIM gene is a candidate for involvement in certain dysmorphic features (particularly the facial and skull characteristics), abnormalities of brain development, and/or mental retardation of Down syndrome.
Product References and Citations for anti-SIM1 antibody	Ghoussaini, M., et al. Obesity (Silver Spring) 18(8):1670-1675(2010). Tolson, K.P., et al. J. Neurosci. 30(10):3803-3812(2010). Traurig, M., et al. Diabetes 58(7):1682-1689(2009). Gregorio, S.P., et al. Psychiatry Res 165 (1-2), 1-9 (2009): Hung, C.C., et al. Int J Obes (Lond) 31(3):429-434(2007).

Other Notes	Small volumes of anti-SIM1 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 SIM1 purchase	MBS6347719 is an antibody targeting SIM1. Also known as SIM1, NT (SIM1, BHLHE14, Single-minded homolog 1, Class E basic helix-loop-helix protein 14) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIM1. It may not necessarily be applicable to this product.

NCBI GI #	21614542
NCBI GeneID	6492
NCBI Accession #	NP_005059.2
UniProt Primary Accession #	P81133
UniProt Secondary Accession #	Q5TDP7
UniProt Related Accession #	P81133
GenBank Nucleotide #	NM_005068.2
NCBI Official Full Name	single-minded homolog 1
NCBI Official Synonym Full Names	single-minded family bHLH transcription factor 1
NCBI Official Symbol	SIM1
NCBI Official Synonym Symbols	bHLHe14
UniProt Protein Name	Single-minded homolog 1
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 14; bHLHe14
Protein Family	Probable secreted beta-glucosidase
UniProt Gene Name	SIM1
UniProt Synonym Gene Names	BHLHE14; bHLHe14
UniProt Entry Name	SIM1_HUMAN
NCBI Protein Information	single-minded homolog 1
Research Articles on SIM1	**1.** Genotype-phenotype correlations confirmed the major role for SIM1 haploinsufficiency in obesity and the Prader-Willi-like phenotype
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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