LAX1 siRNA – Lymphocyte Transmembrane Adapter 1 (Mouse)

PRODUCT OVERVIEW

Product Name	LAX1, siRNA
Full Product Name	LAX1 siRNA (Mouse)
Product Gene Name	LAX1 sirna
Product Synonym Names	LAX; Lymphocyte transmembrane adapter 1; Linker for activation of X cells; Membrane-associated adapter protein LAX
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LAX1 siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	44,838 Da
3D Structure	ModBase 3D Structure for Q8BHB3
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of mouse LAX1 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for LAX1 sirna	RNA Interference (RNAi)
Related Product Information for LAX1 sirna	MBS8220843 is an siRNA targeting LAX1. Also known as LAX1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit LAX1 expression using RNA interference
Other Notes	Small volumes of LAX1 sirna 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LAX1. It may not necessarily be applicable to this product.

NCBI GI #	227497250

NCBI GeneID	240754
NCBI Accession #	NP_001153121.1
UniProt Primary Accession #	Q8BHB3
UniProt Secondary Accession #	Q8BS18; Q8CGV1
UniProt Related Accession #	Q8BHB3
GenBank Nucleotide #	NM_001159649.1
NCBI Official Full Name	lymphocyte transmembrane adapter 1
NCBI Official Synonym Full Names	lymphocyte transmembrane adaptor 1
NCBI Official Symbol	Lax1
NCBI Official Synonym Symbols	A530029E09; E430019B13Rik
UniProt Protein Name	Lymphocyte transmembrane adapter 1
UniProt Synonym Protein Names	Linker for activation of X cells; Membrane-associated adapter protein LAX
Protein Family	Lymphocyte transmembrane adapter
UniProt Gene Name	Lax1
UniProt Synonym Gene Names	Lax
UniProt Entry Name	LAX1_MOUSE
NCBI Protein Information	lymphocyte transmembrane adapter 1
UniProt Comments for LAX1	LAX1: Negatively regulates TCR (T-cell antigen receptor)- mediated signaling in T-cells and BCR (B-cell antigen receptor)- mediated signaling in B-cells. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold; Membrane protein, integral Cellular Component: Golgi apparatus; membrane; cell; cytoplasm; integral to membrane; plasma membrane Molecular Function: SH2 domain binding; protein kinase binding Biological Process: antigen receptor-mediated signaling pathway; B cell activation; immune system process; immunoglobulin secretion; lymphocyte activation; immune response; negative regulation of T cell activation; inactivation of MAPK activity
Research Articles on LAX1	**1.** SIT and LAX are important negative regulators of immune responses that functionally cooperate.
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