OAS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OAS3, Polyclonal Antibody
Full Product Name	OAS3, CT (2'-5'-oligoadenylate Synthase 3, (2-5')oligo(A) Synthase 3, 2-5A Synthase 3, p100 OAS, p100OAS, P/OKcl.4) (MaxLight 650)
Product Gene Name	anti-OAS3 antibody
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 MaxLight650.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human OAS3.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	121,170 Da
OMIM	603351
3D Structure	ModBase 3D Structure for Q9Y6K5
Immunogen	Synthetic peptide selected from the C-terminal region of human OAS3 (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-OAS3 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-OAS3 antibody	Western Blot (WB), FLISA
Application Notes for anti-OAS3 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-OAS3 antibody	MBS6490900 is an antibody targeting OAS3. Also known as OAS3, CT (2'-5'-oligoadenylate Synthase 3, (2-5')oligo(A) Synthase 3, 2-5A Synthase 3, p100 OAS, p100OAS, P/OKcl.4) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-OAS3 antibody	1. Ito, M., et al., Cancer Res. 61(5):2038-2046 (2001). 2. Rebouillat, D., et al., Genomics 70(2):232-240 (2000). 3. Rebouillat, D., et al., J. Biol. Chem. 274(3):1557-1565 (1999).
Other Notes	Small volumes of anti-OAS3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OAS3. It may not necessarily be applicable to this product.

NCBI GI #	45007007
NCBI GeneID	4940
NCBI Accession #	NP_006178.2
UniProt Primary Accession #	Q9Y6K5
UniProt Secondary Accession #	Q2HJ14; Q9H3P5
UniProt Related Accession #	Q9Y6K5
GenBank Nucleotide #	NM_006187.3
NCBI Official Full Name	2'-5'-oligoadenylate synthase 3
NCBI Official Synonym Full Names	2'-5'-oligoadenylate synthetase 3, 100kDa
NCBI Official Symbol	OAS3
NCBI Official Synonym Symbols	p100; p100OAS
UniProt Protein Name	2'-5'-oligoadenylate synthase 3
UniProt Synonym Protein Names	p100 OAS; p100OAS
Protein Family	2'-5'-oligoadenylate synthase
UniProt Gene Name	OAS3
UniProt Synonym Gene Names	(2-5')oligo(A) synthase 3; 2-5A synthase 3; p100OAS
UniProt Entry Name	OAS3_HUMAN
NCBI Protein Information	2'-5'-oligoadenylate synthase 3; p100 OAS; 2-5A synthase 3; 2-5A synthetase 3; (2-5')oligo(A) synthase 3; (2-5')oligo(A) synthetase 3; 2'-5'oligoadenylate synthetase p100
NCBI Summary for OAS3	This gene encodes an enzyme included in the 2', 5' oligoadenylate synthase family. This enzyme is induced by interferons and catalyzes the 2', 5' oligomers of adenosine in order to bind and activate RNase L. This enzyme family plays a significant role in the inhibition of cellular protein synthesis and viral infection resistance. [provided by RefSeq, Jul 2008]
UniProt Comments for OAS3	OAS3: Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response. In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation. Synthesizes preferentially dimers of 2'-5'- oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNase L) leading to its dimerization and subsequent activation. Activation of RNase L leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication. Can mediate the antiviral effect via the classical RNase L-dependent pathway or an alternative antiviral pathway independent of RNase L. Displays antiviral activity against Chikungunya virus (CHIKV), Dengue virus, Sindbis virus (SINV) and Semliki forest virus (SFV). Belongs to the 2-5A synthase family. Protein type: Transferase; EC 2.7.7.84 Chromosomal Location of Human Ortholog: 12q24.2 Cellular Component: nucleoplasm; extracellular space; intracellular membrane-bound organelle; cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; metal ion binding; double-stranded RNA binding; ATP binding; 2'-5'-oligoadenylate synthetase activity Biological Process: negative regulation of viral genome replication; response to virus; cytokine and chemokine mediated signaling pathway; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; defense response to virus

Research Articles on OAS3	**1.** The results suggest that OAS1-OAS3-OAS2 haplotypes are associated with differential susceptibility to clinical outcomes of dengue infection.
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