NRK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NRK, Polyclonal Antibody
Full Product Name	NRK (Nik-Related Protein Kinase, NRK) (MaxLight 550)
Product Gene Name	anti-NRK 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 MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NRK. Species Crossreactivity: human
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	21,368 Da
OMIM	BX538345 mRNA
3D Structure	ModBase 3D Structure for Q7Z2Y5
Immunogen	KLH conjugated synthetic peptide corresponding to aa721-750 at the Central region of human NRK.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-NRK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-NRK antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-NRK antibody	IF: 1:10-50 WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-NRK antibody	MBS6457797 is an antibody targeting NRK. Also known as NRK (Nik-Related Protein Kinase, NRK) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-NRK antibody	Ross, M.T., et al. Nature 434(7031):325-337(2005). Nakano, K., et al. Exp. Cell Res. 287(2):219-227(2003).
Other Notes	Small volumes of anti-NRK 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 NRK. It may not necessarily be applicable to this product.

NCBI GI #	118600963
NCBI GeneID	203447
NCBI Accession #	NP_940867.2
UniProt Primary Accession #	Q7Z2Y5
UniProt Secondary Accession #	Q32ND6; Q5H9K2; Q6ZMP2
UniProt Related Accession #	Q7Z2Y5
GenBank Nucleotide #	NM_198465.3
NCBI Official Full Name	nik-related protein kinase
NCBI Official Synonym Full Names	Nik related kinase
NCBI Official Symbol	NRK
NCBI Official Synonym Symbols	NESK
UniProt Protein Name	Nik-related protein kinase
Protein Family	Nik-related protein kinase
UniProt Gene Name	NRK
NCBI Protein Information	nik-related protein kinase
NCBI Summary for NRK	The mouse ortholog of this gene encodes a protein kinase required for JNK activation. The encoded protein may be involved in the induction of actin polymerization in late embryogenesis.[provided by RefSeq, Jun 2010]
UniProt Comments for NRK	NRK: May phosphorylate cofilin-1 and induce actin polymerization through this process, during the late stages of embryogenesis. Involved in the TNF-alpha-induced signaling pathway. Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.11.1; Kinase, protein; MSN subfamily; Protein kinase, STE; Protein kinase, Ser/Thr (non-receptor); STE group; STE20 family Chromosomal Location of Human Ortholog: Xq22.3 Cellular Component: cytoplasm Molecular Function: ATP binding; MAP kinase kinase kinase kinase activity Biological Process: activation of JNKK activity; activation of MAPKKK activity; negative regulation of cell proliferation; neuron projection morphogenesis; parturition; regulation of apoptosis; regulation of mitotic cell cycle; stress-activated protein kinase signaling pathway
Research Articles on NRK	**1.** The results suggest that Nrk suppresses the excessive proliferation of mammary epithelial cells during pregnancy, and the impairment of this regulatory system leads to frequent occurrence of breast tumor in Nrk mutant mice.
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