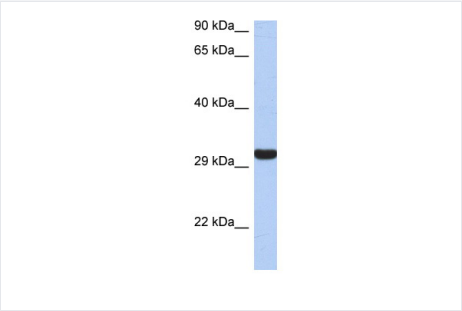
GZMK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GZMK, Polyclonal Antibody
Full Product Name	GZMK antibody - middle region
Product Gene Name	anti-GZMK antibody
Product Synonym Gene Name	TRYP2
Immunogen Sequence	Synthetic peptide located within the following region: LRSGTKCKVT GWGATDPDSL RPSDTLREVT VTVLSRKLCN SQSYYNGDPF
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Pig
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	GZMK peptide (MBS3232656) is used for blocking the activity of GZMK antibody (MBS3207690)
Molecular Weight	26kDa
OMIM	600784
3D Structure	ModBase 3D Structure for P49863
Homology	Human: 100%; Pig: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human GZMK
Product Categories/Family for anti-GZMK antibody	Polyclonal; Signal Proteins; Membrane Protein
Applications Tested/Suitable for anti-GZMK antibody	Western Blot (WB)
Related Product Information for anti-GZMK antibody	This is a rabbit polyclonal antibody against GZMK. It was validated on Western Blot using a cell lysate as a positive control. Target Description: GZMK is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes. This gene product is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Other Notes	Small volumes of anti-GZMK 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 GZMK purchase	MBS3207690 is an antibody targeting GZMK. Also known as GZMK antibody - middle region. Reactive in Human, Pig. Host: Rabbit.



Western Blot (WB) of anti-GZMK antibody
WB Suggested Anti-GZMK Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: Human Spleen

ADDITIONAL DETAILS

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

NCBI GI #	4504235
NCBI GeneID	3003
NCBI Accession #	NP_002095
UniProt Primary Accession #	P49863
UniProt Related Accession #	P49863
GenBank Nucleotide #	NM_002104
NCBI Official Full Name	granzyme K
NCBI Official Synonym Full Names	granzyme K
NCBI Official Symbol	GZMK
NCBI Official Synonym Symbols	TRYP2
UniProt Protein Name	Granzyme K
UniProt Synonym Protein Names	Fragmentin-3; Granzyme-3; NK-tryptase-2
Protein Family	Granzyme
UniProt Gene Name	GZMK
UniProt Synonym Gene Names	TRYP2; NK-Tryp-2
UniProt Entry Name	GRAK_HUMAN
NCBI Protein Information	granzyme K
NCBI Summary for GZMK	This gene product is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes. [provided by RefSeq, Jul 2008]

UniProt Comments for GZMK	GZMK: this protein is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes. [provided by RefSeq, Jul 2008] Protein type: EC 3.4.21.-; Protease; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 5q11.2 Cellular Component: extracellular region Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity Biological Process: proteolysis
Research Articles on GZMK	**1.** Extracellular granzyme K mediates endothelial activation through the cleavage of PAR-1.
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