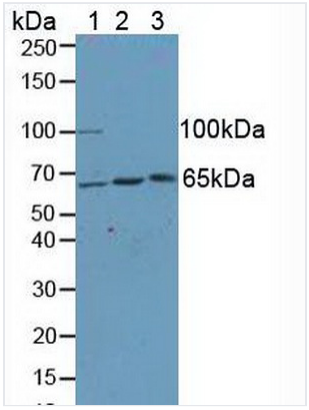
Kinesin 2 (KNS2) Antibody – Rabbit Polyclonal

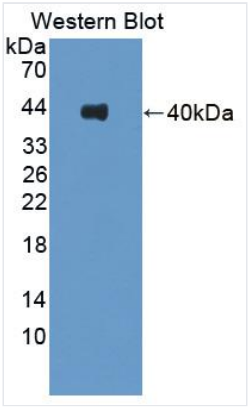
PRODUCT OVERVIEW

Product Name	Kinesin 2 (KNS2), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Kinesin 2 (KNS2)
Product Gene Name	anti-KNS2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	Affinity Chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against KNS2. It has beenselected for its ability to recognize KNS2 in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) Immunogen: KNS2 (MBS2029554)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) APC-CY7 Conjugated Antibody: KNS2 (MBS2066602)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) PE Conjugated Antibody: KNS2 (MBS2066603)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) APC Conjugated Antibody: KNS2 (MBS2066604)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) Cy3 Conjugated Antibody: KNS2 (MBS2066605)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) FITC Conjugated Antibody: KNS2 (MBS2066606)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) HRP Conjugated Antibody: KNS2 (MBS2066607)
Matching Pairs	Unconjugated Antibody: Kinesin 2 (MBS2027872) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Kinesin 2 (MBS2027872) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: KNS2 (MBS2027872) Biotin Conjugated Antibody: KNS2 (MBS2094641)
Molecular Weight	69,765 Da
OMIM	L04733 mRNA
3D Structure	ModBase 3D Structure for Q07866

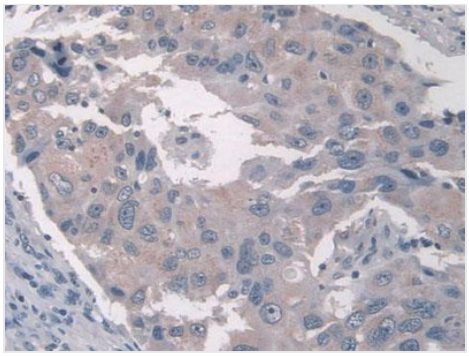
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Fragment	KNS2 (Met1~Val254)
Organism Species	Homo sapiens (Human)
Cross Reactivity	Human, Rat
Conjugate	No Conjugate
Immunogen	Recombinant KNS2 (Met1~Val254) expressed in E Coli.
Conjugated Antibody	The APC conjugated antibody version of this item is also available as catalog #MBS2066604
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-KNS2 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (EIA)
Application Notes for anti-KNS2 antibody	Western blotting: 0.5-2ug/ml Immunocytochemistry in formalin fixed cells: 5-20ug/ml Immunohistochemistry in formalin fixed frozen section: 5-20ug/ml Immunohistochemistry in paraffin section: 5-20ug/ml Enzyme-linked Immunosorbent Assay: 0.05-2ug/ml Optimal working dilutions must be determined by end user.
Related Product Information for anti-KNS2 antibody	MBS2027872 is an antibody targeting KNS2. Also known as Polyclonal Antibody to Kinesin 2 (KNS2). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-KNS2 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.



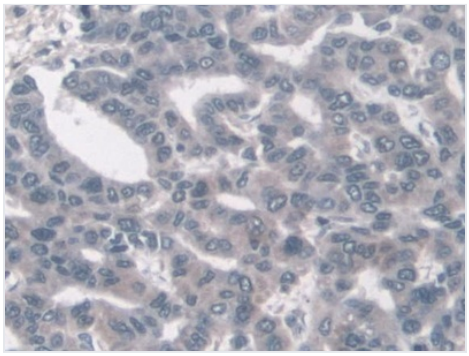
Western Blot (WB) of anti-KNS2 antibody
Western Blot: Sample: Lane1: Human Hela Cells; Lane2: Rat Brain Tissue; Lane3: Rat Spinal Cord Tissue.



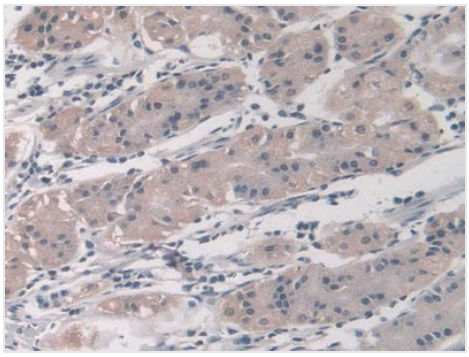
Western Blot (WB) of anti-KNS2 antibody
Western Blot: Sample: Recombinant KNS2, Human.



Immunohistochemistry (IHC) of anti-KNS2 antibody
DAB staining on IHC-P; Samples: Human Breast Cancer Tissue.



Immunohistochemistry (IHC) of anti-KNS2 antibody
DAB staining on IHC-P; Samples: Human Liver Cancer Tissue



Immunohistochemistry (IHC) of anti-KNS2 antibody
DAB staining on IHC-P; Samples: Human Stomach Tissue

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KNS2. It may not necessarily be applicable to this product.

NCBI GI #	194306559
NCBI GeneID	3831
NCBI Accession #	NP_001123579.1
UniProt Primary Accession #	Q07866
UniProt Secondary Accession #	Q7RTM2; Q7RTM3; Q7RTM5; Q7RTP9; Q7RTQ3; Q7RTQ5; Q7RTQ6; Q86SF5; Q86TF5; A6NF62; F8VTM4
UniProt Related Accession #	Q07866
GenBank Nucleotide #	NM_001130107.1
NCBI Official Full Name	kinesin light chain 1 isoform 3
NCBI Official Synonym Full Names	kinesin light chain 1
NCBI Official Symbol	KLC1
NCBI Official Synonym Symbols	KLC; KNS2; KNS2A
UniProt Protein Name	Kinesin light chain 1
Protein Family	Kinesin-like protein
UniProt Gene Name	KLC1
UniProt Synonym Gene Names	KLC; KNS2; KLC 1
NCBI Protein Information	kinesin light chain 1
NCBI Summary for KNS2	Conventional kinesin is a tetrameric molecule composed of two heavy chains and two light chains, and transports various cargos along microtubules toward their plus ends. The heavy chains provide the motor activity, while the light chains bind to various cargos. This gene encodes a member of the kinesin light chain family. It associates with kinesin heavy chain through an N-terminal domain, and six tetratricopeptide repeat (TPR) motifs are thought to be involved in binding of cargos such as vesicles, mitochondria, and the Golgi complex. Thus, kinesin light chains function as adapter molecules and not motors per se. Although previously named "kinesin 2", this gene is not a member of the kinesin-2 / kinesin heavy chain subfamily of kinesin motor proteins. Extensive alternative splicing produces isoforms with different C-termini that are proposed to bind to different cargos; however, the full-length nature and/or biological validity of most of these variants have not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for KNS2	Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity.
Research Articles on KNS2	**1.** structural plasticity of the N-terminal capping helix might represent a structural determinant for TPR domain structural versatility in cargo binding

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