INVS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	INVS, Polyclonal Antibody
Full Product Name	INVS Rabbit pAb
Product Gene Name	anti-INVS antibody
Product Synonym Names	INV; NPH2; NPHP2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	120kDa
OMIM	243305
3D Structure	ModBase 3D Structure for Q9Y283
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-90 of human INVS (NP_055240.2).
Cellular Localization	Cell Projection, Cilium, Cytoplasm, Cytoskeleton, Membrane, Microtubule, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-INVS antibody	Western Blot (WB)
Application Notes for anti-INVS antibody	WB: 1:500-1:2000
Related Product Information for anti-INVS antibody	Required for normal renal development and establishment of left-right axis. Probably acts as a molecular switch between different Wnt signaling pathways. Inhibits the canonical Wnt pathway by targeting cytoplasmic disheveled (DVL1) for degradation by the ubiquitin-proteasome. This suggests that it is required in renal development to oppose the repression of terminal differentiation of tubular epithelial cells by Wnt signaling. Involved in the organization of apical junctions in kidney cells together with NPHP1, NPHP4 and RPGRIP1L/NPHP8. Does not seem to be strictly required for ciliogenesis.
Other Notes	Small volumes of anti-INVS 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 INVS purchase	MBS8547842 is an antibody targeting INVS. Also known as INVS Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	34304381

NCBI GeneID	27130
NCBI Accession #	NP_055240.2
UniProt Primary Accession #	Q9Y283
UniProt Related Accession #	Q9Y283
GenBank Nucleotide #	NP_055240.2
NCBI Official Full Name	inversin isoform a
NCBI Official Synonym Full Names	inversin
NCBI Official Symbol	INVS
NCBI Official Synonym Symbols	INV; NPH2; NPHP2
UniProt Protein Name	Inversin
UniProt Synonym Protein Names	Inversion of embryo turning homolog; Nephrocystin-2
Protein Family	Inversin
UniProt Gene Name	INVS
UniProt Synonym Gene Names	INV; NPHP2
UniProt Entry Name	INVS_HUMAN
NCBI Protein Information	inversin
NCBI Summary for INVS	This gene encodes a protein containing multiple ankyrin domains and two IQ calmodulin-binding domains. The encoded protein may function in renal tubular development and function, and in left-right axis determination. This protein interacts with nephrocystin and infers a connection between primary cilia function and left-right axis determination. A similar protein in mice interacts with calmodulin. Mutations in this gene have been associated with nephronophthisis type 2. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2012]
Research Articles on INVS	**1.** Inversin required for ciliary translocation of Smo and activation of the Shh pathway; Shh signaling promotes inversin phosphorylation by PKA and inversin-Smo interaction
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