INVS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	INVS, Polyclonal Antibody
Full Product Name	INVS Antibody, HRP conjugated
Product Gene Name	anti-INVS antibody
Product Synonym Names	Inversin; Inversion of embryo turning homolog; Nephrocystin-2; INVS; INV; NPHP2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: INVS (MBS7044719) HRP Conjugated Antibody: INVS (MBS7046683)
Molecular Weight	10,748 Da
OMIM	243305
3D Structure	ModBase 3D Structure for Q9Y283
Species	Human
Immunogen	Recombinant human Inversin protein
Conjugate	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-8719 / sc-12550
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-INVS antibody	ELISA (EIA)
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 (By similarity). Does not seem to be strictly required for ciliogenesis (By similarity).
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	MBS7046683 is an antibody targeting INVS. Also known as INVS Antibody, HRP conjugated. Reactive in Human. 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 Secondary Accession #	Q2NKL0; Q5W0T6; Q8IVX8; Q9BRB9; Q9Y488; Q9Y498; A2A2Y2
UniProt Related Accession #	Q9Y283
GenBank Nucleotide #	NM_014425.4
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]
UniProt Comments for INVS	INVS: 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. Defects in INVS are the cause of nephronophthisis type 2 (NPHP2); also known as infantile nephronophthisis. NPHP2 is an autosomal recessive disorder resulting in end-stage renal disease. It is characterized by early onset and rapid progression. Phenotypic manifestations include enlarged kidneys, chronic tubulo-interstitial nephritis, anemia, hyperkalemic metabolic acidosis. Some patients also display situs inversus. Pathologically, it differs from later-onset nephronophthisis by the absence of medullary cysts and thickened tubular basement membranes and by the presence of cortical microcysts. 3 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 9q31 Molecular Function: protein binding Disease: Nephronophthisis 2
Research Articles on INVS	**1.** Truncating mutations in NPHP2 gene is associated with nephronophthisis-related ciliopathy.

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