10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

INSC Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9702c

Specification

INSC Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q1MX18
Other Accession	Q3HNM7
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**410-437**

INSC Antibody (Center) - Additional Information

Gene ID 387755

Other Names
Protein inscuteable homolog, INSC

Target/Specificity
This INSC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 410-437 amino acids from the Central region of human INSC.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
INSC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

INSC Antibody (Center) - Protein Information

Name INSC

Function May function as an adapter linking the Par3 complex to the GPSM1/GPSM2 complex

(PubMed:16458856). Involved in spindle orientation during mitosis. May regulate cell proliferation and differentiation in the developing nervous system. May play a role in the asymmetric division of fibroblasts and participate in the process of stratification of the squamous epithelium (By similarity).

Cellular Location
Cytoplasm. Cytoplasm, cell cortex. Note=Uniformly distributed in the cytoplasm during interphase. During metaphase, detected in the cell cortex, adjacent to the mitotic spindle poles

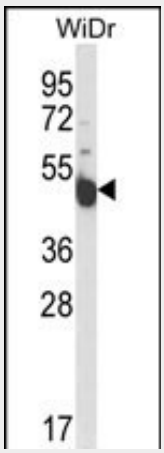
Tissue Location
Isoform 1 is expressed in various tissues with stronger expression in liver, kidney and small intestine. Isoform 2 is abundantly expressed in small intestine and to a lower extent in lung and pancreas.

INSC Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

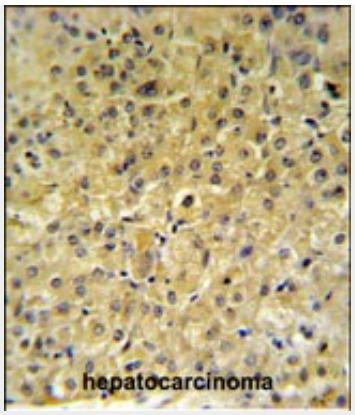
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

INSC Antibody (Center) - Images



Western blot analysis of INSC Antibody (Center) (Cat. #AP9702c) in WiDr cell line lysates (35ug/lane). INSC (arrow) was detected using the purified Pab.

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INSC Antibody (Center) (Cat. #AP9702c) IHC analysis in formalin fixed and paraffin embedded hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the INSC Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

INSC Antibody (Center) - Background

In Drosophila, neuroblasts divide asymmetrically into another neuroblast at the apical side and a smaller ganglion mother cell on the basal side. Cell polarization is precisely regulated by 2 apically localized multiprotein signaling complexes that are tethered by Inscuteable, which regulates their apical localization (Izaki et al., 2006 [PubMed 16458856]).

INSC Antibody (Center) - References

Vural, A., et al. Mol. Cell. Biol. 30(6):1528-1540(2010)
Rivadeneira, F., et al. Nat. Genet. 41(11):1199-1206(2009)
Izaki, T., et al. Biochem. Biophys. Res. Commun. 341(4):1001-1006(2006)
Katoh, M., et al. Int. J. Mol. Med. 11(1):111-116(2003)