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

RANBP8 / IPO8 Antibody (C-Term)

Peptide-affinity purified goat antibody
Catalog # AF2272a

Specification

RANBP8 / IPO8 Antibody (C-Term) - Product Information

Application	**IHC**
Primary Accession	O15397
Other Accession	NP_006381.2, NP_001177924.1, 10526
Reactivity	**Human**
Predicted	**Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**119938**

RANBP8 / IPO8 Antibody (C-Term) - Additional Information

Gene ID 10526

Other Names
Importin-8, Imp8, Ran-binding protein 8, RanBP8, IPO8, RANBP8

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RANBP8 / IPO8 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

RANBP8 / IPO8 Antibody (C-Term) - Protein Information

Name IPO8

Synonyms RANBP8

Function
Involved in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously, may serve as receptor for nuclear localization signals (NLS) and promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin, the

importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (PubMed:9214382). In vitro mediates the nuclear import of the signal recognition particle protein SRP19 (PubMed:11682607). May also be involved in cytoplasm-to-nucleus shuttling of a broad spectrum of other cargos, including Argonaute- microRNAs complexes, the JUN protein, RELA/NF-kappa-B p65 subunit, the translation initiation factor EIF4E and a set of receptor-activated mothers against decapentaplegic homolog (SMAD) transcription factors that play a critical role downstream of the large family of transforming growth factor beta and bone morphogenetic protein (BMP) cytokines (Probable).

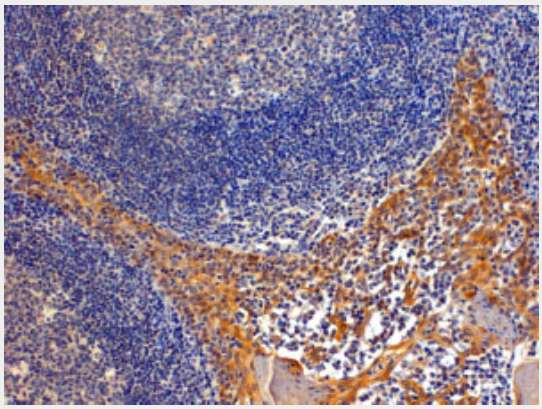
Cellular Location
Cytoplasm. Nucleus.

RANBP8 / IPO8 Antibody (C-Term) - 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

RANBP8 / IPO8 Antibody (C-Term) - Images



AF2272a (4 µg/ml) staining of paraffin embedded Human Tonsil. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining. Similar results were obtained after antigen retrieval at pH9.

RANBP8 / IPO8 Antibody (C-Term) - Background

This antibody is expected to recognise isoform 1 (NP_006381.2) and isoform 2 (NP_001177924.1).

RANBP8 / IPO8 Antibody (C-Term) - References

A novel class of RanGTP binding proteins. Gorlich D, Dabrowski M, Bischoff FR, Kutay U, Bork P,

Hartmann E, Prehn S, Izaurralde E. J Cell Biol. 1997 Jul 14;138(1):65-80. PMID: 9214382