Datasheet for ABIN7170398

# anti-SNX5 antibody (AA 7-245)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | SNX5 |
| Binding Specificity: | AA 7-245 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SNX5 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

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| Immunogen: | Recombinant Human Sorting nexin-5 protein (7-245AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

## Target Details

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|---|---|
| Target: | SNX5 |
| Alternative Name: | SNX5 (SNX5 Products) |
| Background: | Background: Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,4- |

## Target Details

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|---|---|
| | bisphosphate (PtdIns(3,4)P2) (PubMed:15561769). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Does not have in vitro vesicle-to-membrane remodeling activity (PubMed:23085988). Involved in retrograde transport of lysosomal enzyme receptor IGF2R (PubMed:17148574, PubMed:18596235). May function as link between endosomal transport vesicles and dynactin (Probable). Plays a role in the internalization of EGFR after EGF stimulation (Probable). Involved in EGFR endosomal sorting and degradation, the function involves PIP5K1C isoform 3 and is retromer-independent (PubMed:23602387). Together with PIP5K1C isoform 3 facilitates HGS interaction with ubiquitinated EGFR, which initiates EGFR sorting to intraluminal vesicles (ILVs) of the multivesicular body for subsequent lysosomal degradation (Probable). Involved in E-cadherin sorting and degradation, inhibits PIP5K1C isoform 3-mediated E-cadherin degradation (PubMed:24610942). Plays a role in macropinocytosis (PubMed:18854019, PubMed:21048941).<br>Aliases: 0910001N05Rik antibody, 1810032P22Rik antibody, AU019504 antibody, D2Ertd52e antibody, FLJ10931 antibody, OTTHUMP00000030340 antibody, OTTHUMP00000062927 antibody, OTTMUSP00000003367 antibody, OTTMUSP00000003368 antibody, RP11-504H3.2 antibody, RP23-35E16.2 antibody, snoRNA MBI-43 antibody, SNX 5 antibody, SNX5 antibody, SNX5_HUMAN antibody, Sorting nexin 5 antibody, Sorting nexin-5 antibody |
| UniProt: | Q9Y5X3 |

## Application Details

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| Application Notes: | Recommended dilution: WB:1:1000-1:5000, IHC:1:500-1:1000, IF:1:200-1:500, |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be |

## Handling

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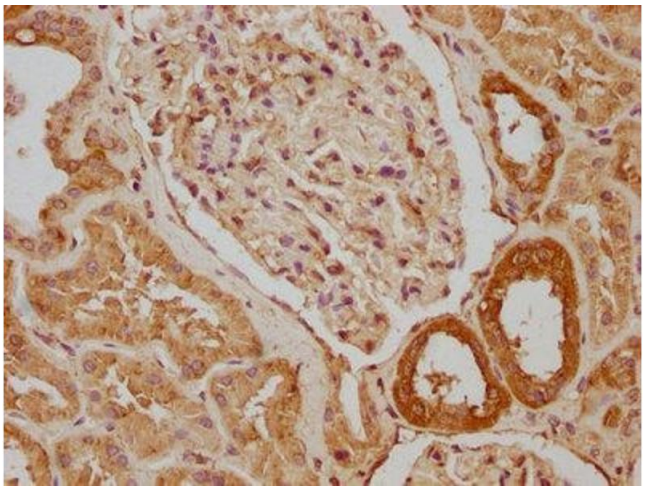
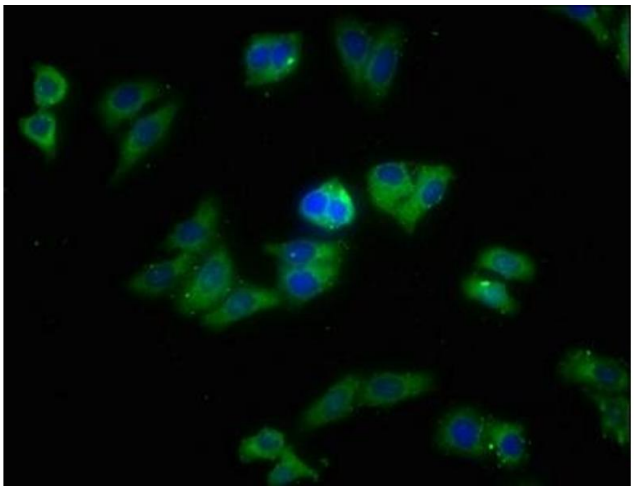
|---|---|
| | handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

## Images



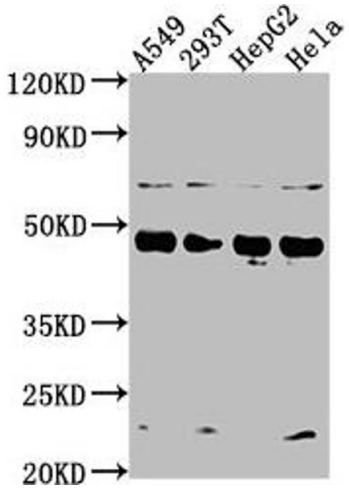
**Immunohistochemistry**

**Image 1.** IHC image of ABIN7170398 diluted at 1:640 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer ( pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



**Immunofluorescence**

**Image 2.** Immunofluorescence staining of HepG2 cells with ABIN7170398 at 1:213, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).




## Western Blotting

**Image 3.** Western Blot Positive WB detected in: A549 whole cell lysate, 293T whole cell lysate, HepG2 whole cell lysate, Hela whole cell lysate All lanes: SNX5 antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 47, 14 kDa Observed band size: 47 kDa