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Datasheet for ABIN682080

## anti-Sorting Nexin 1 antibody (AA 401-522) (Biotin)

### Overview

|                      |  |
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| Quantity:            | 100 µL   |
| Target:              | Sorting Nexin 1 (SNX1)   |
| Binding Specificity: | AA 401-522   |
| Reactivity:          | Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This Sorting Nexin 1 antibody is conjugated to Biotin  |
| Application:         | ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

### Product Details

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| Immunogen:            | KLH conjugated synthetic peptide derived from human SNX1/Sorting nexin1. |
| Isotype:              | IgG  |
| Cross-Reactivity:     | Rat  |
| Predicted Reactivity: | Human,Mouse,Dog,Pig,Horse,Chicken,Rabbit                                 |
| Purification:         | Purified by Protein A.   |

### Target Details

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|-------------------|--|
| Target:           | Sorting Nexin 1 (SNX1)                 |
| Alternative Name: | SNX1 ( <a href="#">SNX1 Products</a> ) |

## Target Details

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| Background: | <p>Synonyms: VPS5, HsT17379, Sorting nexin-1, SNX1</p> <p>Background: Involved in several stages of intracellular trafficking. Interacts with membranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed:12198132). 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). Can sense membrane curvature and has in vitro vesicle-to-membrane remodeling activity (PubMed:19816406, PubMed:23085988). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1) and Shigella dysenteria toxin stxB. Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi (PubMed:12198132, PubMed:15498486, PubMed:17550970, PubMed:17101778, PubMed:18088323, PubMed:21040701). Involvement in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R (PubMed:16407403, PubMed:20070609). Promotes KALRN- and RHOG-dependent but retromer-independent membrane remodeling such as lamellipodium formation, the function is dependent on GEF activity of KALRN (PubMed:20604901). Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking (PubMed:23152498).</p> |
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| Gene ID: | 6642 |
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| UniProt: | <a href="#">Q13596</a> |
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## Application Details

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| Application Notes: | IHC-P 1:200-400<br>IHC-F 1:100-500 |
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| Restrictions: | For Research Use only |
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## Handling

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|         |        |
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| Format: | Liquid |
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|                |         |
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| Concentration: | 1 µg/µL |
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| Buffer: | Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
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## Handling

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| Preservative:      | ProClin  |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store at -20°C for 12 months.  |
| Expiry Date:       | 12 months  |