

Immunotag™
 SLC8A1 Antibody

| Antibody Specification |                                                                                                                                                                                                                                                                                                                             |
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| Catalog No.            | ITA9672                                                                                                                                                                                                                                                                                                                     |
| Product Description    | Immunotag™ SLC8A1 Antibody                                                                                                                                                                                                                                                                                                  |
| Size                   | 100 µg, 200 µg                                                                                                                                                                                                                                                                                                              |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                                                                                                                                                               |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.                                                                                                                                                          |
| Target Protein         | SLC8A1                                                                                                                                                                                                                                                                                                                      |
| Clonality              | Polyclonal                                                                                                                                                                                                                                                                                                                  |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                                                                                                |
| Application            | WB,IHC,ELISA                                                                                                                                                                                                                                                                                                                |
| Recommended Dilution   | WB 1:1000-3000 IHC 1:200                                                                                                                                                                                                                                                                                                    |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                                                                                                     |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                                                                                                                                                             |
| Host Species           | Rabbit                                                                                                                                                                                                                                                                                                                      |
| Immunogen              | A synthesized peptide derived from human SLC8A1                                                                                                                                                                                                                                                                             |
| Specificity            | SLC8A1 Antibody detects endogenous levels of total SLC8A1                                                                                                                                                                                                                                                                   |
| Purification           | The antiserum was purified by peptide affinity chromatography.                                                                                                                                                                                                                                                              |
| Form                   | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                                                                 |
| Gene Name              | SLC8A1                                                                                                                                                                                                                                                                                                                      |
| Accession No.          | P32418                                                                                                                                                                                                                                                                                                                      |
| Alternate Names        | CNC; DKFZp779F0871; MGC119581; Na(+)/Ca(2+)-exchange protein 1; Na+/Ca2+ exchange protein 1; Na+/Ca2+ exchanger; NAC1_HUMAN; NCX 1; NCX; NCX1; SLC8A1; SLC8A1 protein; Sodium Calcium Exchanger; Sodium/calcium exchanger 1; Solute carrier family 8 (sodium/calcium exchanger) member 1; Solute carrier family 8 member 1; |

## Antibody Specification

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| Description               | Mediates the exchange of one Ca <sup>2+</sup> ion against three to four Na <sup>+</sup> ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca <sup>2+</sup> levels and Ca <sup>2+</sup> -dependent cellular processes (PubMed:1374913, PubMed:11241183, PubMed:1476165). Contributes to Ca <sup>2+</sup> transport during excitation-contraction coupling in muscle. In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic Ca <sup>2+</sup> levels due to release of Ca <sup>2+</sup> stores from the endoplasmic reticulum. SLC8A1 mediates the export of Ca <sup>2+</sup> from the cell during the next phase, so that cytoplasmic Ca <sup>2+</sup> levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions. |
| Cell Pathway/<br>Category | Primary Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein MW                | 109kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Usage                     | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |