

# Human Electrogenic Sodium Bicarbonate Cotransporter 4 (NBC4) ELISA Kit | NBC4 elisa kit

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|------------------------------|----------------------------|
| CATALOG #<br><b>AAA64475</b> | REACTIVITY<br><b>Human</b> |
|------------------------------|----------------------------|

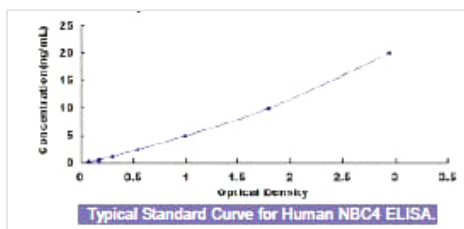
## PRODUCT SYNONYMS

Electrogenic Sodium Bicarbonate Cotransporter 4 (NBC4); Human Electrogenic Sodium Bicarbonate Cotransporter 4 (NBC4) ELISA Kit; SLC4A5; NBCe2; Solute Carrier Family 4 Member 5; Sodium Bicarbonate Cotransporter; NBC4 elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of NBC4. No significant cross-reactivity or interference between NBC4 and analogues was observed.                                  |
| Sequence Length         | 1137                                                                                                                                                                                                       |
| Samples                 | Tissue homogenates and other biological fluids.                                                                                                                                                            |
| Assay Type              | Sandwich                                                                                                                                                                                                   |
| Detection Range         | 0.312-20ng/mL                                                                                                                                                                                              |
| Sensitivity             | 0.119ng/mL                                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level NBC4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level NBC4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%   |
| Preparation and Storage | For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C. |

## IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Related Product Information for NBC4 elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of NBC4 in human tissue homogenates and other biological fluids.</p> <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to NBC4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to NBC4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain NBC4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of NBC4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 125987596                                                      |
| NCBI GeneID                      | 57835                                                          |
| NCBI Accession #                 | NP_067019.3                                                    |
| NCBI GenBank Nucleotide #        | NM_021196.3                                                    |
| UniProt Accession #              | Q9BY07; Q32MA7; Q59EQ9; Q8WXD3; Q8WXD7; Q96DS7; Q96DS8; Q9HBU5 |
| Molecular Weight                 | 118,125 Da                                                     |
| NCBI Official Full Name          | electrogenic sodium bicarbonate cotransporter 4 isoform a      |
| NCBI Official Synonym Full Names | solute carrier family 4 member 5                               |
| NCBI Official Symbol             | SLC4A5                                                         |
| NCBI Official Synonym Symbols    | NBC4; NBCe2                                                    |
| NCBI Protein Information         | electrogenic sodium bicarbonate cotransporter 4                |
| UniProt Protein Name             | Electrogenic sodium bicarbonate cotransporter 4                |
| UniProt Gene Name                | SLC4A5                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/electrogenic-sodium-bicarbonate-cotransporter-4-nbc4/64475>