

Product datasheet for **TA389021**

Phospho-Slc12a3 (pThr53) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | WB: 1:1000-1:6000 WB Brain: 1:1000-1:6000 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr53 of mouse NCC, conjugated to keyhole limpet hemocyanin (KLH). |
| Specificity: | Specific for endogenous levels of the ~160 kDa NCC protein phosphorylated at Thr53. Band of interest smearing likely due to glycosylation. Immunolabeling is completely eliminated by treatment with l-phosphatase. |
| Formulation: | 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol. |
| Concentration: | lot specific |
| Purification: | Antigen Affinity Purified from Pooled Serum |
| Conjugation: | Unconjugated |
| Storage: | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. |
| Stability: | After date of receipt, stable for at least 1 year at -20°C. |
| Predicted Protein Size: | 160 |
| Gene Name: | solute carrier family 12, member 3 |
| Database Link: | Entrez Gene 20497 Mouse P55017 |



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Background:

The thiazide-sensitive sodium chloride cotransporter, NCC, is the major NaCl transport protein in the distal convoluted tubule (DCT) and plays an important role in maintaining blood pressure (Rosenbaek et al., 2014, Feng et al., 2015). Phosphorylation of NCC at Thr-53, Thr-58, and Ser-71 is an essential mediator of NCC function (Rosenbaek et al., 2014). NCC is constitutively cycled to the plasma membrane, and upon stimulation, it can be phosphorylated to both increase NCC activity and decrease NCC endocytosis, together increasing NaCl transport in the DCT (Feng et al., 2015).

Synonyms:

FLJ96318; NCCT; TSC

Note:

Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.