

NDCBE

Cat.No. 275 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) (see remarks) IP: not tested yet ICC: not tested yet IHC: yes IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 1078 to 1089 from mouse NDCBE (UniProt Id: Q8JZR6)
Reactivity	Reacts with: rat (Q6RVG2), mouse (Q8JZR6). Other species not tested yet.
Specificity	Specific for NDCBE/SLC4A8. (K.O. verified)
Remarks	WB: Using non-boiled samples to run SDS-PAGE is recommended.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **Na⁺-driven Cl⁻/HCO₃⁻ exchanger** or **NDCBE**, also known as SLC4A8, is a multispanning transmembrane protein that is predominantly expressed in brain. It is involved in the pH regulation in neurons and modulates glutamatergic synaptic vesicle release.

Selected General References

Synaptic glutamate release is modulated by the Na⁺-driven Cl⁻/HCO₃⁻ exchanger Slc4a8.

Sinning A, Liebmann L, Kougioumtzes A, Westermann M, Bruehl C, Hübner CA

The Journal of neuroscience : the official journal of the Society for Neuroscience (2011) 31(20): 7300-11.

The Na⁺-dependent chloride-bicarbonate exchanger SLC4A8 mediates an electroneutral Na⁺ reabsorption process in the renal cortical collecting ducts of mice.

Leviel F, Hübner CA, Houillier P, Morla L, El Moghrabi S, Brideau G, Hassan H, Hatim H, Parker MD, Kurth I, Kougioumtzes A, et al.

The Journal of clinical investigation (2010) 120(5): 1627-35.

Cloning and characterization of novel human SLC4A8 gene products encoding Na⁺-driven Cl⁻/HCO₃⁻ exchanger variants

NDCBE-A, -C, and -D.

Parker MD, Bouyer P, Daly CM, Boron WF

Physiological genomics (2008) 34(3): 265-76.