

AE4 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51724**Specification**

AE4 Antibody - Product Information

Application	WB, E
Primary Accession	O96Q91
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108 KDa

AE4 Antibody - Additional Information**Gene ID** 83697**Other Names**

Anion exchange protein 4, AE 4, Anion exchanger 4, Sodium bicarbonate cotransporter 5, Solute carrier family 4 member 9, SLC4A9, AE4, SBC5

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human AE4. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

AE4 Antibody - Protein Information**Name** SLC4A9 ([HGNC:11035](#))**Function**

Electroneutral Cl(-)/HCO3(-) antiporter that favors chloride ion entry and efflux of hydrogencarbonate and sodium ion across the basolateral membrane and may participate in salivary secretion (PubMed:27114614). Also mediates Cl(-)/HCO3(-) exchange activity in the presence of K(+) as well as Cs(+), Li(+), and Rb(+) (By similarity). Does not contribute to Cl(-)/HCO3(-) exchanger in the apical membrane of the upper villous epithelium (By similarity).

Cellular Location

Basolateral cell membrane {ECO:0000250|UniProtKB:A0A494BA31}; Multi-pass membrane protein. Note=Localized in the basolateral membrane of the cortical collecting duct (CCD) and submandibular gland (SMG) duct {ECO:0000250|UniProtKB:A0A494BA31}

Tissue Location

Kidney specific. {ECO:0000269|PubMed:11305939, ECO:0000269|Ref.7}

AE4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AE4 Antibody - Images**AE4 Antibody - Background**

Probable apical anion exchanger of the kidney cortex (By similarity).

AE4 Antibody - References

Parker M.D., et al. Biochem. Biophys. Res. Commun. 282:1103-1109(2001).
Lipovich L., et al. Genome Biol. 2:RESEARCH0011.1-RESEARCH0011.13(2001).
Schmutz J., et al. Nature 431:268-274(2004).
Karet F.E., et al. Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.