10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-AE4 Antibody

Catalog # AP51724

Product Information

Application	WB
Primary Accession	Q96Q91
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108248

Additional Information

Gene ID	83697
Other Names	AE4; SBC5; Anion exchange protein 4; AE 4; Anion exchanger 4; Sodium bicarbonate cotransporter 5; Solute carrier family 4 member 9
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human AE4. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

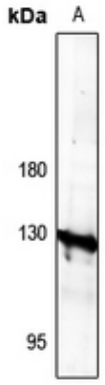
Protein Information

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}

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.

Images



Western blot analysis of AE4 expression in HEK293T (A) whole cell lysates. (Predicted band size: 108 kD; Observed band size: 125 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.