Product Datasheet

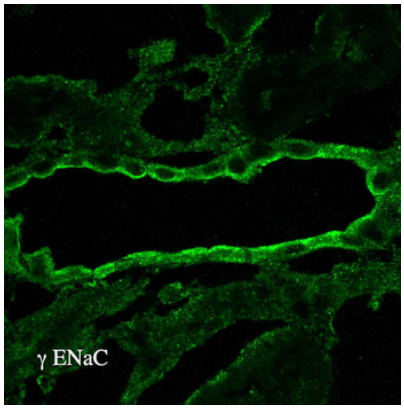
ENaC gamma Antibody (APC) (orb152750)

Catalog Number	orb152750
Category	Antibodies
Description	Rabbit polyclonal to ENaC Gamma (APC). The Epithelial Sodium Channel (ENaC) is a membrane ion channel permeable to Na+ ions. It is located in the apical plasma membrane of epithelia in the kidneys, lung, colon, and other tissues where it plays a role in trans epithelial Na+-ion transport. Specifically Na+ transport via ENaC occurs across many epithelial surfaces, and plays a key role in regulating salt and water absorption. ENaCs are composed of three structurally related subunits that form a tetrameric channel, alpha, beta , and gamma. The expression of its alpha and beta subunits is enhanced as keratinocytes differentiate. The beta and gamma-ENaC subunits are essential for edema fluid to exert its maximal effect on net fluid absorption by distal lung epithelia(5). And it has been concluded that the subunits are differentially expressed in the retina of mice with ocular hypertension, therefore the up-regulation of alpha-ENaC proteins could serve as a protection mechanism against elevated intraocular pressure..
Target	ENaC gamma
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	APC
Reactivity	Frog, Hamster, Human, Mouse, Rat
Concentration	1 mg/ml
Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA
Purification	Protein A Purified

Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

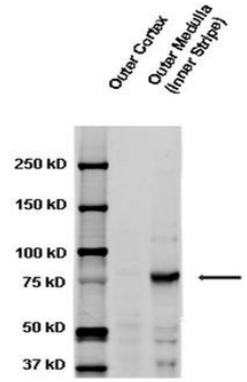
Immunogen	Produced against the C-terminal tail (amino acids 629-650) of rat gamma ENaC (antibody designation L550)
UniProt ID	**P37091**
MW	83kDa
Tested applications	ICC, IF, IHC, WB
Dilution range	WB (1:1000), IHC (1:100)
Application notes	1 µg/ml was sufficient for detection of gamma-ENaC in 20 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Specificity	Detects ~83kDa.
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	**24768**
NCBI	**NP_058742**
Expiration Date	12 months from date of receipt.



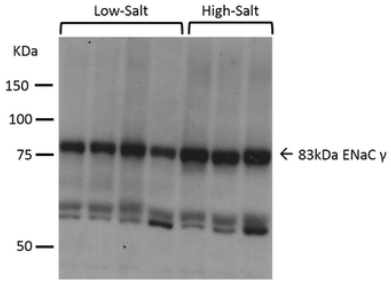
Immunohistochemistry analysis using Rabbit Anti-ENaC Polyclonal Antibody. Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody at 1:100. Secondary Antibody: FITC Goat Anti-Rabbit (green).

Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558



Western blot analysis of Rat kidney tissue lysates showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody. Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody at 1:1000.



Western blot analysis of Mouse kidney cortex showing detection of ENaC protein using Rabbit Anti-ENaC Polyclonal Antibody. Primary Antibody: Rabbit Anti-ENaC Polyclonal Antibody at 1:1000. Low-salt diet (lanes 1-4) compared to a high-salt diet (lanes 5-7). 70kDa degradation band observed in low-salt.

Biorbyt Ltd.
7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC
68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558