

Product Datasheet

KCNH1 Antibody NBP1-42816SS

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-42816SS

KCNH1 Antibody

Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	110 kDa
Product Description	
Host	Rabbit
Gene ID	3756
Gene Symbol	KCNH1
Species	Human, Mouse, Rat, Bovine
Reactivity Notes	Human, mouse, rat, bovine and other vertebrates.
Specificity/Sensitivity	This antibody does not cross-react with Kv1.2.
Immunogen	Synthetic peptide made to an internal portion of rat KCNH1 (within residues 400-450).[Swiss-Prot# Q63472]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500-1:1000, Immunoprecipitation 1:10-1:500
Application Notes	This KCNH1 antibody is useful for Immunoprecipitation, Immunocytochemistry/Immunofluorescence and Western blot. In WB, the target band can be seen at ~110 kDa with some additional bands between 110-130 kDa position representing differentially glycosylated form of KCNH1/EAG1 (PMID 25280486 and 15964838). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.



Publications

Chavez-Lopez MG, Zuniga-Garcia V, Castro-Magdonel BE et al. Eag1 Gene and Protein Expression in Human Retinoblastoma Tumors and its Regulation by pRb in HeLa Cells *Genes (Basel)* 2020-01-21 [PMID: 31973216] (WB, Human)

Garcia-Quiroz J, Garcia-Becerra R, Santos-Martinez N et al. In vivo dual targeting of the oncogenic Ether-a-go-go-1 potassium channel by calcitriol and astemizole results in enhanced antineoplastic effects in breast tumors. *BMC Cancer*. 2014-10-08 [PMID: 25280486] (WB, ICC/IF, Human)

Details:

KCNH1/EAG1 antibody used for ICC staining of T-47D and MBCDF cell lines - fixed in 96% ethanol, antigen retrieval via autoclaving in EDTA 0.1 M/pH 9.0, blocking with immunodetector peroxidase blocker/ background Sniper reagents, primary used at 1:300 dilution with 2 hour incubation, detection with immuno-Detector Biotin-Link and immuno-Detector HRP label followed by DAB development (Figure 1). Antibody also used for WB on lysates T-47D xenografts from mice (bearing palpable tumors) treated with vehicle, calcitriol, astemizole or the combination of both drugs - two distinct bands of 110 and 130 kDa observed which might represent differential glycosylation patterns of asparagines at positions 388 and 406 of EAG1 [Figure 5A, results supported by Napp et al. *J Biol Chem*. 2005 280(33):29506-12].

de Guadalupe Chavez-Lopez M, Hernandez-Gallegos E, Vazquez-Sanchez AY et al. Antiproliferative and proapoptotic effects of astemizole on cervical cancer cells. *Int. J. Gynecol. Cancer*. 2014-06-01 [PMID: 24819656] (ICC/IF, Human)

Garcia-Quiroz J, Garcia-Becerra R, Barrera D et al. Astemizole Synergizes Calcitriol Antiproliferative Activity by Inhibiting CYP24A1 and Upregulating VDR: A Novel Approach for Breast Cancer Therapy *PLoS One* 2012-01-01 [PMID: 22984610] (IF/IHC, Human)

Wu W, Dong MQ, Wu XG, Sun HY, Tse HF, Lau CP, Li GR. Human ether-a-go-go gene potassium channels are regulated by EGFR tyrosine kinase. *Biochim Biophys Acta*;1823(2):282-9. 2012-02-01 [PMID: 22061963] (IP, WB, Human)

Piros ET, Shen L, Huang XY. Purification of an EH domain-binding protein from rat brain that modulates the gating of the rat ether-a-go-go channel. *J Biol Chem*;274(47):33677-83. 1999-11-19 [PMID: 10559257] (IP, Human)





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Limitations

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