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Anti-NMBR Antibody

Catalog # AP61356

Product Information

Application	WB, IF/IC
Primary Accession	P28336
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43435

Additional Information

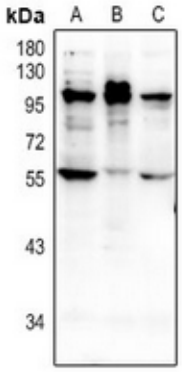
Gene ID	4829
Other Names	Neuromedin-B receptor; NMB-R; Epididymis tissue protein Li 185a; Neuromedin-B-preferring bombesin receptor
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NMBR. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
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

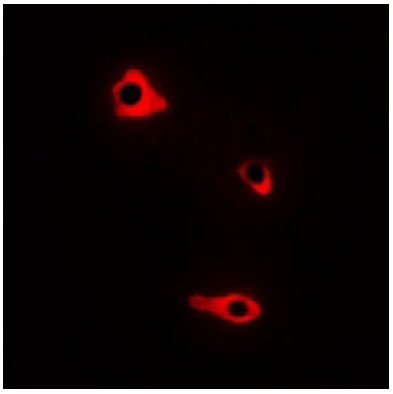
Name	NMBR
Function	Receptor for neuromedin-B (PubMed: 1655761). Contributes to the maintenance of basal sigh rate through signaling in the pre- Botzinger complex, a cluster of several thousand neurons in the ventrolateral medulla responsible for inspiration during respiratory activity (By similarity). Contributes to the induction of sneezing following exposure to chemical irritants or allergens which causes release of NMB by nasal sensory neurons and activation of NMBR- expressing neurons in the sneeze-evoking region of the brainstem (By similarity). These in turn activate neurons of the caudal ventral respiratory group, giving rise to the sneezing response (By similarity). Contributes to induction of acute itch, possibly through its activation on dorsal root ganglion neurons by the NMB peptide (By similarity). Plays a role in the innate immune response to influenza A virus infection by enhancing interferon alpha expression and reducing expression of IL6 (PubMed:31601264). Plays a role in CSF1-induced proliferation of osteoclast precursors by contributing to the positive regulation of the expression of the

	CSF1 receptor CSF1R (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in epididymis (at protein level).

Images



Western blot analysis of NMBR expression in EC9706 (A), Hela (B), PC3 (C) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 100; 55 kD)



Immunofluorescent analysis of NMBR staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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