

Rabbit Anti-TMEM35/NACHO Polyclonal: RC0033-0.2ML

Intended Use: For Research Use Only

Description: TMEM35 (Transmembrane protein 35), also known as TMEM35A or NACHO, is an 18 kDa endoplasmic reticulum-resident protein with four transmembrane domains that mediates the functional expression of α -7 nicotinic acetylcholine receptors (α 7 nAChR). Related family members like TMEM35B are also studied as diagnostic biomarkers in cancers such as gliomas. TMEM35 is mostly expressed in hypothalamic-pituitary-adrenal (HPA) circuitry and limbic areas, including the hippocampus and amygdala of mice. TMEM35 is a 167-amino acid peptide with a putative NH2 terminal signal peptide, three hydrophobic transmembrane domains, and a nerve growth factor binding domain.

Specifications:

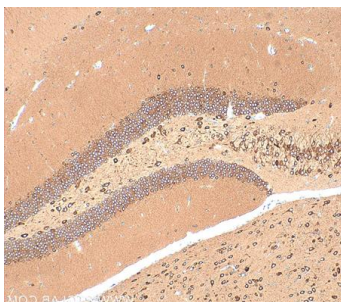
Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse
Immunogen:	Recombinant human TMEM35 protein aa 125-167
Localization:	Endoplasmic reticulum membrane and cytoplasmic vesicles
Formulation:	Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, IF, WB
Package:	

Description	Catalog No.	Size
TMEM35/NACHO Polyclonal Concentrated	RC0033-0.2ML	0.2 ml

IHC Procedure*:

Positive Control Tissue:	Cerebellum, brain
Concentrated Dilution:	100-1000
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	Overnight at 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE mouse brain stained with anti-TMEM35 using DAB

References:

1. Nicotine-Induced Endoplasmic Reticulum Stress and Airway Smooth Muscle Cell Proliferation Is Mediated by α 7nAChR and Chaperones-RIC-3 and TMEM35. Niyati A Borkar, et al. Am J Respir Cell Mol Biol. Mar;72(3):297-307, 2025. doi: 10.1165/rcmb.2024-0194OC.
2. Mechanism of NACHO-mediated assembly of pentameric ligand-gated ion channels. Yogesh Hooda, et al. bioRxiv. Nov 15:2024.10.28.620708, 2024. doi: 10.1101/2024.10.28.620708.