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Product no AS12 1851

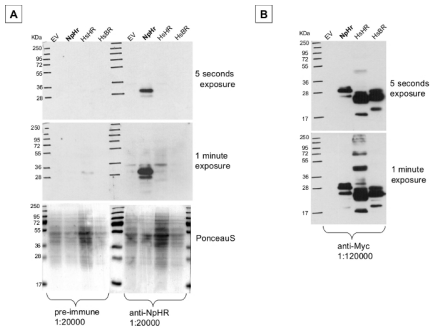
Anti-NpHR | Halorhodopsin

Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Natronomonas pharaonis* halorhodopsin sequences UniProt: A0A1U7EU03
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl of sterile water
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1 : 200 (IF), 1 : 1000 (WB)
Expected | apparent MW	30.9 | 30 kDa
Confirmed reactivity	*Natronomonas pharaonis*
Predicted reactivity	*Natronomonas pharaonis* Species of your interest not listed? Contact us
Not reactive in	*Halobacterium salinarum* (HsHR and HsBR)
Additional information	Immunofluorescence was performed on mouse brain slices (data not shown)
Selected references	Huang et al. (2024). Suppression of presynaptic corticostriatal glutamate activity attenuates L-dopa-induced dyskinesia in 6-OHDA-lesioned Parkinson's disease mice. Neurobiol Dis. 2024 Apr:193:106452. doi: 10.1016/j.nbd.2024.106452. Alfonsa et al. (2015) The contribution of raised intraneuronal chloride to epileptic network activity. J Neurosci. 2015 May 20;35(20):7715-26. doi: 10.1523/JNEUROSCI.4105-14.2015.



Following SDS-PAGE (12% Seperation Gel) the Blot (PVDF) was stained with PonceauS (**A**, lowest panel), divided in two halves, scanned and blocked with 5 % not-fat milk powder (Marvel) o.n. at 4 °C. The halves were then incubated separately at RT for 1 h with anti-NpHR or pre-immune serum at the indicated dilutions, rinsed briefly twice with TBS-T (pH 7.4), then washed three times for 15 min, incubated for 1 h at RT with goat anti-rabbit-HRP conjugated secondary antibody (Agrisera, # AS09 602) in a dilution of 1:100 000 and washed as described before. The halves were combined for development with TMA-6 (Lumigen) at the indicated exposure times using Kodak X-ray Film (# 8143059)(A). The anti-NpHR blot was stripped at 70 °C for 30 min and re-probed with anti-Myc (Abcam, # ab9106) and anti-rabbit-HRP (Agrisera, # AS09 602, 1:200 000) as described below **(B)**.

Samples loaded in the order as indicated above the blot were 9 µg (12 µg in case of HsHR; Amidoblack Assay) of total membrane fractions of yeast expressing: EV = empty vector control; NpHR = Halorhodopsin from *Natronomonas pharaonis*; HsHR = Halorhodopsin from *Halobacterium salinarum*; HsBR = Bacteriorhodopsin (D85T) from Halobacterium salinarum;NpHr, HsHR and HsBR include a C-terminal Myc tag. The calculated molecular weights are NpHR-Myc: 33.6 KDa; HsHR-Myc: 31.4 KDa; HsBR-Myc: 29.4 KDa.

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Courtesy of Dr. Annegret Honsbein from Dr. Anna Amtmann's laboratory at the University of Glasgow, United Kingdom