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contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no **AS12 1851**
NpHR | Halorhodopsin

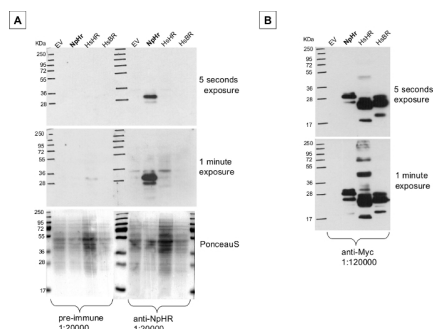
Product information

Immunogen	KLH-conjugated synthetic peptide derived from <i>Natronomonas pharaonis</i> halorhodopsin sequences UniProt: AOA1U7EU03
Host	Rabbit
Clonality	Polyclonal
Purity	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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Application information

Recommended dilution	1 : 200 (IF), 1 : 1000-1 : 20 000 (WB)
Expected apparent MW	30.9 30 kDa
Confirmed reactivity	<i>Natronomonas pharaonis</i>
Predicted reactivity	<i>Natronomonas pharaonis</i> Species of your interest not listed? Contact us
Not reactive in	<i>Halobacterium salinarum</i> (HsHR and HsBR)
Additional information	Immunofluorescence was performed on mouse brain slices (data not shown). For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	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.

Application example



Following SDS-PAGE (12% Separation 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

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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.

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