

For Research Use Only

KCNH7 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 83674-1-PBS



Basic Information

Catalog Number: 83674-1-PBS	GenBank Accession Number: BC035815	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 90134	CloneNo.: 240644B5
Source: Rabbit	UNIPROT ID: Q9NS40	
Isotype: IgG	Full Name: potassium voltage-gated channel, subfamily H (eag-related), member 7	
Immunogen Catalog Number: AG4532	Calculated MW: 1196 aa, 135 kDa	
	Observed MW: 135 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat, pig

Product Information

83674-1-PBS targets KCNH7 as part of a matched antibody pair:

MP00649-1: 83674-1-PBS capture and 83674-2-PBS detection (validated in Cytometric bead array)

MP00649-2: 83674-4-PBS capture and 83674-1-PBS detection (validated in Cytometric bead array)

MP00649-3: 83674-1-PBS capture and 83674-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

Potassium voltage-gated channel subfamily H member 7 is a protein that in humans is encoded by the KCNH7 gene. The protein encoded by this gene is a voltage-gated potassium channel subunit. KCNH7 is pore-forming (alpha) subunit of voltage-gated potassium channel. Channel properties may be modulated by cAMP and subunit assembly.

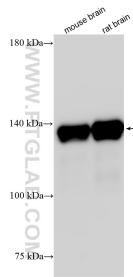
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

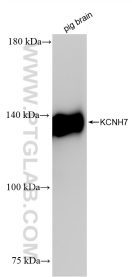
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

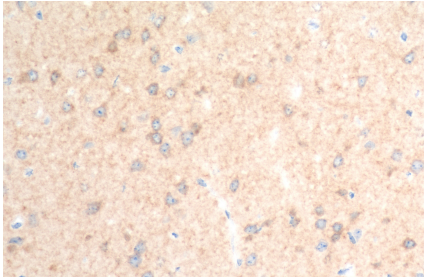
Selected Validation Data



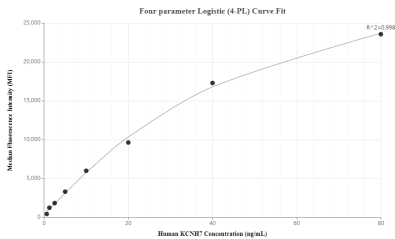
Various lysates were subjected to SDS PAGE followed by western blot with 83674-1-RR (KCNH7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83674-1-PBS in a different storage buffer formulation.



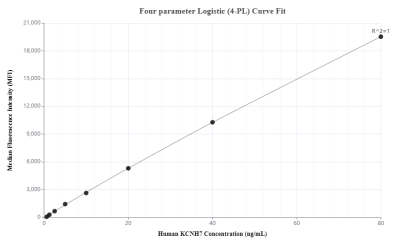
pig brain tissue were subjected to SDS PAGE followed by western blot with 83674-1-RR (KCNH7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83674-1-PBS in a different storage buffer formulation.



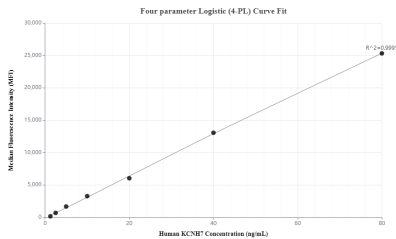
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83674-1-RR (KCNH7 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83674-1-PBS in a different storage buffer formulation.



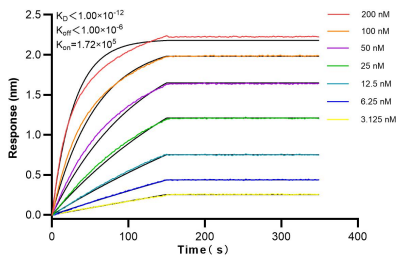
Cytometric bead array standard curve of MP00649-1, KCNH7 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83674-1-PBS. Detection antibody: 83674-2-PBS. Standard: Ag4532. Range: 0.625-80 ng/mL



Cytometric bead array standard curve of MP00649-2, KCNH7 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83674-4-PBS. Detection antibody: 83674-1-PBS. Standard: Ag4532. Range: 0.625-80 ng/mL



Cytometric bead array standard curve of MP00649-3, KCNH7 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83674-1-PBS. Detection antibody: 83674-3-PBS. Standard: Ag4532. Range: 1.25-80 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83674-1-RR against Human KCNH7 were performed. The affinity constant is below 1 pM.