

Datasheet for ABIN3185286
anti-KCNQ4 antibody (C-Term)[Go to Product page](#)

1 Validation

1 Image

Overview

Quantity:	100 µL
Target:	KCNQ4
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNQ4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized peptide derived from the C-terminal region of human KCNQ4.
Isotype:	IgG
Specificity:	KCNQ4 Polyclonal Antibody detects endogenous levels of KCNQ4 protein.
Characteristics:	Rabbit Polyclonal to KCNQ4.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	KCNQ4
Alternative Name:	KCNQ4 (KCNQ4 Products)

Target Details

Molecular Weight:	80 kDa
Gene ID:	9132
UniProt:	P56696
Pathways:	Sensory Perception of Sound

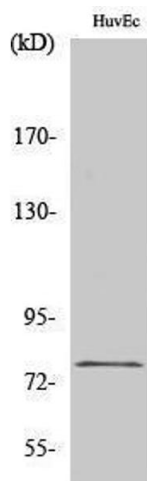
Application Details

Application Notes:	WB 1:500-1:2000, ELISA 1:5000,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Store at -20°C.

Images



Western Blotting

Image 1.



Successfully validated (Western Blotting (WB))

by [Dipartimento di Medicina e Scienze della Salute, Università degli Studi del Molise, Campobasso](#)

Report Number: 102194

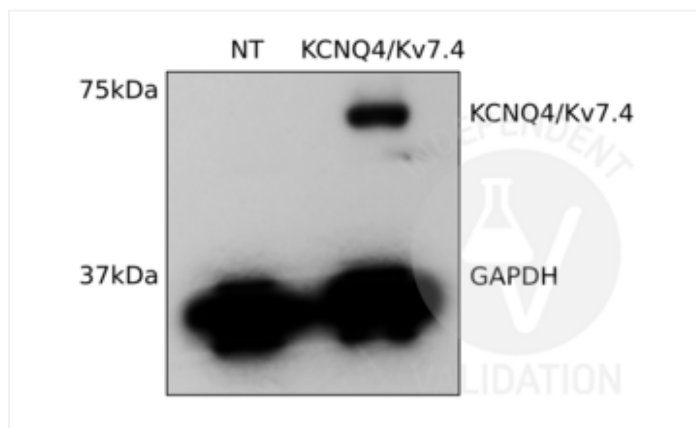
Date: Apr 11 2019

Target:	Kv7.4/KCNQ4
Lot Number:	3824901
Method validated:	Western Blotting (WB)
Positive Control:	NCHO cells non transfected or transfected with each other member of the Kv7 family (Kv7.1, Kv7.2, Kv7.3 or Kv7.5)
Negative Control:	Western blot analysis of KCNQ4/KV7.4 using ABIN3185286. Total lysates from non-transfected (NT) CHO cells or cells transfected with plasmids expressing human Kv7.4 (Kv7.4) cDNAs were prepared and separated as described in the protocol. GAPDH served as loading control.
Notes:	Passed. ABIN3185286 specifically detects KCNQ4/Kv7.4 in lysates from CHO cells expressing recombinant human KCNQ4/Kv7.4.
Primary Antibody:	ABIN3185286
Secondary Antibody:	goat anti-rabbit IgG (H+L) antibody (ImmunoReagents, GTXMU-003-DHRPX, lot 31-118-043013)
Protocol:	<ul style="list-style-type: none"> • Grow CHO cells (Chinese Hamster Ovary cells) in DMEM medium (Microgem, L0106-500) supplemented with 10% fetal bovine serum (Microgem, S1810-500) and 1x Penicillin-Streptomycin mix (Microgem, L0022-100), at 37°C and 5% CO₂ in 60mm plates. • Transfect CHO cells with plasmids expressing Kv7.4 with 5µg of plasmid each and 1µg of plasmid expressing EGFP as a transfection marker using Lipofectamine 2000 (invitrogen, 11668019) following the manufacturer's instructions. • Lyse cells in an appropriate volume of B-buffer, containing 150mM NaCl, 10mM Tris-HCl pH7.4, 1mM EDTA, 1% SDS and 1x protease inhibitors (Roche, 11836145001, lot 11231400). • Determine total protein content of the lysates using a Bradford protein assay (AppliChem, A6932, lot 6J015116). • Denature 20µg of total protein for 10min at 100°C in 1/3 volume of 4x Laemmli SDS sample buffer and subsequently separate them on a denaturing 8% SDS-PAGE gel in Mini-PROTEAN Electrophoresis Cells (Bio-Rad) for 2-3h at 100V. • Transfer proteins onto PVDF filter (Bio-Rad, 1620177, lot 28369A01) with transfer buffer (25mM Tris, 192mM glycine, 20% methanol) in a western blotting system at 40mA at 4°C ON. • Block the membrane with blocking buffer (PBS, 5% milk dissolved, 1% Tween20) for 1h at RT. • Incubation with primary

Validation report #102194 for Western Blotting (WB)

- rabbit anti-KCNQ4/Kv7.4 antibody (antibodies-online, ABIN3185286, 3824901) diluted 1:500 in blocking buffer ON at 4°C or
- rabbit anti-GAPDH (abcam, ab1816002, lot GR217575-62) diluted 1:5000 in blocking buffer ON at 4°C.
- Wash membrane 3x for 10min with PBS-T.
- Incubation with secondary goat anti-rabbit IgG (H+L) antibody (ImmunoReagents, GTXMU-003-DHRPX, lot 31-118-043013) diluted 1:500 (for ABIN3185286) or 1:20000 (for anti-GAPDH) in blocking buffer for 1h at RT.
- Wash membrane 3x for 10min with PBS-T.
- Treat PVDF filters with chemiluminescence solutions (ECL, Promega) for 5min at RT then develop and acquire signals.

Image for Validation report #102194



Validation image no. 1 for anti-Potassium Voltage-Gated Channel, KQT-Like Subfamily, Member 4 (KCNQ4) (C-Term) antibody (ABIN3185286)

Western blot analysis of KCNQ4/KV7.4 using ABIN3185286.

Total lysates from non-transfected (NT) CHO cells or cells transfected with plasmids expressing human Kv7.4 (Kv7.4) cDNAs were prepared and separated as described in the protocol. GAPDH served as loading control.