

# Product Datasheet

## Kv7.1 Antibody (S37A/10) - BSA Free NBP2-12897

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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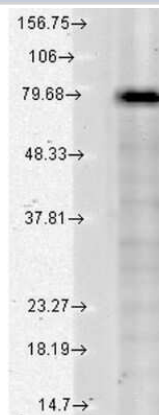
**NBP2-12897**

Kv7.1 Antibody (S37A/10) - BSA Free

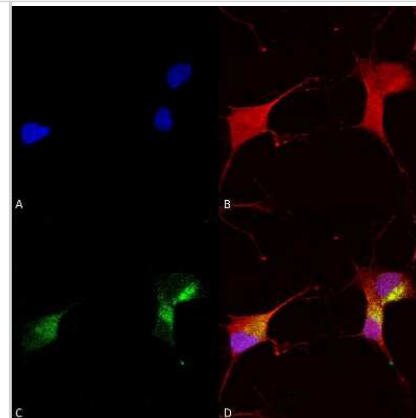
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	S37A/10
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse Kv7.1 Antibody (S37A/10) - BSA Free (NBP2-12897) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3784
Gene Symbol	KCNQ1
Species	Human, Mouse, Rat, Hamster
Specificity/Sensitivity	Detects approx 75 kDa.
Immunogen	Fusion protein amino acids 2-101 of human KCNQ1
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Microarray
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:100, Immunoprecipitation, Immunohistochemistry-Paraffin 1:1000, Microarray
Application Notes	1 ug/ml of KCNQ1 Antibody was sufficient for detection of KCNQ1 in 10 ug of COS-1 cell lysate transiently expressing KCNQ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

**Images**

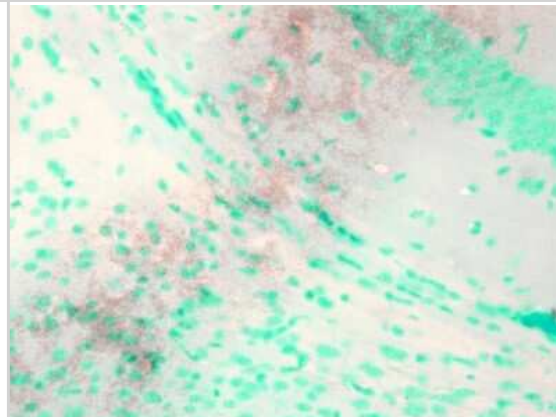
Western Blot: Kv7.1 Antibody (S37A/10) [NBP2-12897] - Western Blot analysis of Human Cell lysates showing detection of Kv7.1 protein using Mouse Anti-Kv7.1 Monoclonal Antibody, Clone N37A/10 (NBP2-12897). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Kv7.1 Monoclonal Antibody (NBP2-12897) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



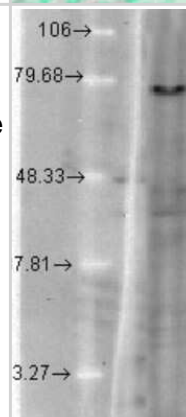
**Immunocytochemistry/Immunofluorescence: Kv7.1 Antibody (S37A/10) [NBP2-12897]** - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Kv7.1 Monoclonal Antibody, Clone N37A/10 (NBP2-12897). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Kv7.1 Monoclonal Antibody (NBP2-12897) at 1:100 for overnight at 4C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Kv7.1 Antibody (D) Composite.



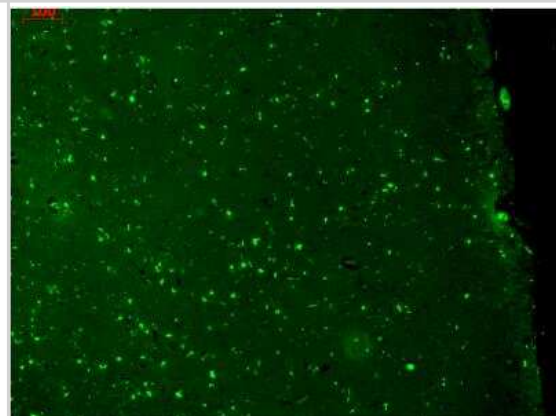
**Immunohistochemistry: Kv7.1 Antibody (S37A/10) [NBP2-12897]** - Immunohistochemistry analysis using Mouse Anti-Kv7.1 Monoclonal Antibody, Clone N37A/10 (NBP2-12897). Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-Kv7.1 Monoclonal Antibody (NBP2-12897) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 I for 5 minutes at RT.



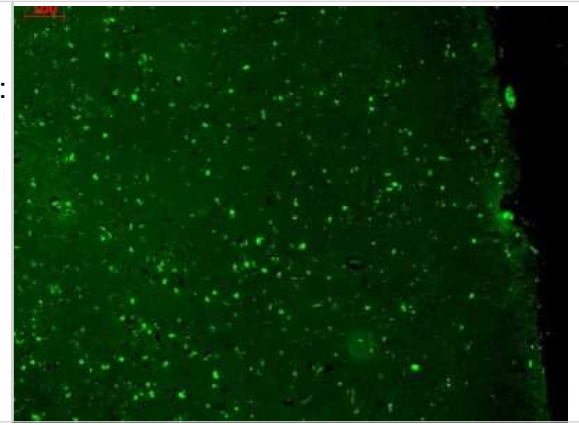
**Western Blot: Kv7.1 Antibody (S37A/10) [NBP2-12897]** - Analysis of hamster T-CHO cell lysate showing detection of KCNQ1 protein using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A/10. Load: 15 ug protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



**Immunohistochemistry: Kv7.1 Antibody (S37A/10) [NBP2-12897]** - Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunohistochemistry: Kv7.1 Antibody (S37A/10) [NBP2-12897] - Immunohistochemistry analysis using Mouse Anti-Kv7.1 Monoclonal Antibody, Clone N37A/10 (NBP2-12897). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Kv7.1 Monoclonal Antibody (NBP2-12897) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.





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### Products Related to NBP2-12897

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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