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## anti-HCN1 antibody (AA 778-910) (Biotin)





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#### Overview

| Quantity:            | 100 μg   |
|----------------------|--|
| Target:              | HCN1   |
| Binding Specificity: | AA 778-910   |
| Reactivity:          | Rat  |
| Host:                | Mouse  |
| Clonality:           | Monoclonal   |
| Conjugate:           | This HCN1 antibody is conjugated to Biotin   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Antibody Array (AA) |

### **Product Details**

| Immunogen:        | Fusion protein amino acids 778-910 (C terminus) of rat HCN1 |
|-------------------|---|
| Clone:            | S70   |
| Isotype:          | IgG1  |
| Specificity:      | Detects ~100 kDa. No cross-reactivity against HCN2.         |
| Cross-Reactivity: | Human, Mouse, Rat   |
| Purification:     | Protein G Purified  |
|                   |   |

## **Target Details**

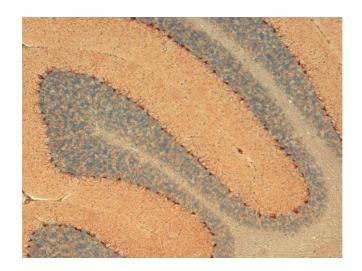
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## **Target Details**

Storage Comment:

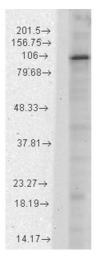
| rarget Details      |  |
|---------------------|--|
| Alternative Name:   | HCN1 (HCN1 Products)   |
| Background:         | Hyperpolarization-activated cation channels of the HCN gene family, such as HCN1, play a crucial role in the regulatons of cell excitability. Importantly, they contribute to spontaneous rhythmic activity in both the heart and brain (1). |
| Gene ID:            | 84390  |
| NCBI Accession:     | NP_445827  |
| UniProt:            | Q9JKB0   |
| Pathways:           | Asymmetric Protein Localization  |
| Application Details |  |
| Application Notes:  | <ul> <li>WB (1:1000)</li> <li>IHC (1:1000)</li> <li>ICC/IF (1:100)</li> <li>optimal dilutions for assays should be determined by the user.</li> </ul>  |
| Comment:            | 1 μg/ml of ABIN2483964 was sufficient for detection of HCN1 in 10 μg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.  |
| Restrictions:       | For Research Use only  |
| Handling            |  |
| Format:             | Liquid   |
| Concentration:      | 1 mg/mL  |
| Buffer:             | PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated  |
| Preservative:       | Sodium azide   |
| Precaution of Use:  | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.   |
| Storage:            | 4 °C   |
|                     |  |

Conjugated antibodies should be stored at 4°C



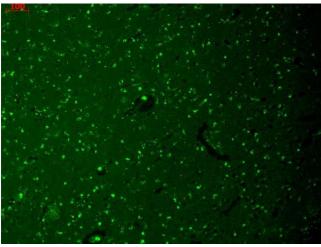
#### **Immunohistochemistry**

Image 1. Immunohistochemistry analysis using Mouse Anti-HCN1 Monoclonal Antibody, Clone S70-28. Tissue: Cerebellum. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-HCN1 Monoclonal Antibody 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 µl for 5 minutes at RT. Localization: Cytoplasmic staining of Purkinje cells.



#### **Western Blotting**

Image 2. Western Blot analysis of Rat brain membrane lysate showing detection of HCN1 protein using Mouse Anti-HCN1 Monoclonal Antibody, Clone S70-28 . Load: 15 μg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HCN1 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



#### **Immunohistochemistry**

Image 3. Immunohistochemistry analysis using Mouse Anti-HCN1 Monoclonal Antibody, Clone S70-28. Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-HCN1 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.

Please check the product details page for more images. Overall 5 images are available for ABIN2483964.