

**DATASHEET**

**PGP9.5 Mouse Monoclonal Antibody(C2404)**

CAT. NO. AMA02016

**KEY FEATURES**

|               |   |               |              |
|---------------|---|---------------|--------------|
| Target        | PGP9.5  | Source / Host | Mouse        |
| Reactivity    | Human   | Clonality     | Monoclonal   |
| Applications  | WB, IHC   | Conjugation   | Unconjugated |
| Form / Buffer | Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide. | Storage       | at-20°C      |

**BACKGROUND**

Deubiquitinase that plays a role in the regulation of several processes such as maintenance of synaptic function, cardiac function, inflammatory response or osteoclastogenesis . Abrogates the ubiquitination of multiple proteins including WWTR1/TAZ, EGFR, HIF1A and beta-site amyloid precursor protein cleaving enzyme 1/BACE1 . In addition, recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin to maintain a stable pool of monoubiquitin that is a key requirement for the ubiquitin-proteasome and the autophagy-lysosome pathways . Regulates amyloid precursor protein/APP processing by promoting BACE1 degradation resulting in decreased amyloid beta production .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|     |                |
|-----|----------------|
| WB  | 1:500 - 1:1000 |
| IHC | 1:100 - 1:300  |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

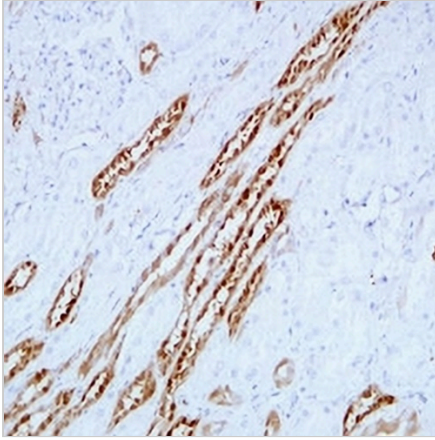
|                   |  |
|-------------------|--|
| Description       | Mouse monoclonal antibody to PGP9.5  |
| Specificity       | Recognizes endogenous levels of PGP9.5 protein.  |
| Antibody Type     | Primary antibody   |
| Immunogen         | KLH-conjugated synthetic peptide encompassing a sequence within human PGP9.5. The exact sequence is proprietary.                     |
| Purification      | The antibody was purified by immunogen affinity chromatography.  |
| Form/Buffer       | Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.  |
| Alternative Names | Ubiquitin carboxyl-terminal hydrolase isozyme L1; UCH-L1; Neuron cytoplasmic protein 9.5; PGP 9.5; PGP9.5; Ubiquitin thioesterase L1 |
| Gene Symbol       | UCHL1  |
| Entrez Gene       | 7345(Human)  |
| SwissProt         | P09936(Human)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

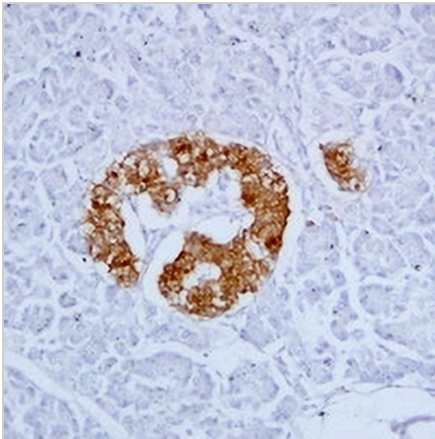
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Immunohistochemical analysis of PGP9.5 staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunohistochemical analysis of PGP9.5 staining in human pancreas formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.