

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human PINK1 in direct ELISAs. |
| Source | Monoclonal Rat IgG _{2A} Clone # 420920 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human PINK1 Met1-Leu581 Accession # ABM87645 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

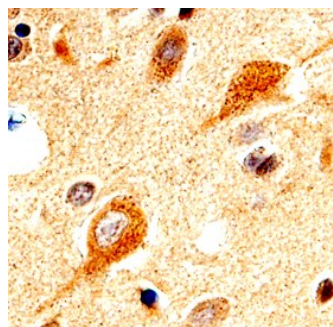
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|-----------------------------|----------------------------------|---------------|
| Immunohistochemistry | 8-25 µg/mL | See Below |

DATA

Immunohistochemistry



PINK1 in Human Brain. PINK1 was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using 15 µg/mL Rat Anti-Human PINK1 Monoclonal Antibody (Catalog # MAB4357) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained with the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

PTEN-induced putative kinase 1 (PINK1) is a ubiquitous protein with highest levels in heart, skeletal muscle, and testis, and with lower expression in other tissues, including brain. PINK1 contains a mitochondrial targeting motif and a highly conserved protein kinase domain with strong homology to serine/threonine kinases of the calcium/calmodulin family. Mutations in the *Pink1* gene have been identified as a cause of autosomal recessive early-onset parkinsonism.