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# Drosophila DJ-1B (C-term) Blocking Peptide
**Synthetic peptide**
**Catalog # BP6418a**

## Specification

### Drosophila DJ-1B (C-term) Blocking Peptide - Product Information

Primary Accession Q9VA37

### Drosophila DJ-1B (C-term) Blocking Peptide - Additional Information

**Gene ID** 43652

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP6418a>AP6418a</a> was selected from the C-term region of human Drosophila DJ-1B (C-term). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### Drosophila DJ-1B (C-term) Blocking Peptide - Protein Information

**Name** dj-1beta {ECO:0000312|FlyBase:FBgn0039802}

**Function**
Plays an important role in cell protection against oxidative stress and cell death by acting as a oxidative stress sensor (PubMed:<a href="http://www.uniprot.org/citations/16139214" target="_blank">16139214</a>, PubMed:<a href="http://www.uniprot.org/citations/16203113" target="_blank">16203113</a>, PubMed:<a href="http://www.uniprot.org/citations/16894167" target="_blank">16894167</a>, PubMed:<a href="http://www.uniprot.org/citations/20457924" target="_blank">20457924</a>). Does not play a role in methylglyoxal detoxification (PubMed:<a href="http://www.uniprot.org/citations/27903648" target="_blank">27903648</a>). Plays a role in mitochondrial function together with Pink1 (PubMed:<a href="http://www.uniprot.org/citations/20457924" target="_blank">20457924</a>). In motor neurons regulates structural synaptic plasticity of locomotor behavior as part of the PTEN-phosphatidylinositol 3-kinase pathway in response to oxygen species (ROS) levels (PubMed:<a href="http://www.uniprot.org/citations/30540251" target="_blank">30540251</a>).

**Cellular Location**
Mitochondrion. Cytoplasm. Nucleus

**Tissue Location**
Expressed in the head and testis (at protein level) (PubMed:16139213). Ubiquitously expressed at constant levels (PubMed:16139214).

## Drosophila DJ-1B (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## Drosophila DJ-1B (C-term) Blocking Peptide - Images

## Drosophila DJ-1B (C-term) Blocking Peptide - Background

DJ-1 mutations are associated with rare forms of autosomal recessive early-onset Parkinson's disease (PD). DJ-1 is suggested to normally function as a redox-sensitive molecular chaperone protective against cellular oxidative stress. DJ-1 Drosophila models are an important tool for elucidating protein function and for modeling neurodegenerative disease.

## Drosophila DJ-1B (C-term) Blocking Peptide - References

Moore DJ, et al. Sci Aging Knowledge Environ. 2006 Jan 11;2006(2):pe2. Park J, et al. Gene. 2005 Nov 21;361:133-9. Yang Y, et al. Proc Natl Acad Sci U S A. 2005 Sep 20;102(38):13670-5. Menzies FM, et al. Curr Biol. 2005 Sep 6;15(17):1578-82. Meulener M, et al. Curr Biol. 2005 Sep 6;15(17):1572-7. Meulener M, et al. J Neurochem. 2005 Jun;93(6):1524-32.