Datasheet: HCA024

### Description:
HUMAN ANTI HUMAN DJ-1 (OXIDIZED AT C106)

### Specificity:
DJ-1 (OXIDIZED AT C106)

### Other names:
PARK7

### Format:
Purified

### Product Type:
Monoclonal Antibody

### Clone:
3055

### Isotype:
HuCAL Fab bivalent

### Quantity:
0.1 mg

### Applications Details

**Applications**
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Immunohistology - Paraffin</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species
Human

### Product Form
A bivalent human recombinant Fab (lambda light chain) selected from the HuCAL® GOLD phage display library. Expressed in *E. coli* and purified using NiNTA affinity chromatography. This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain.

### Preparation
Metal chelate affinity chromatography.

### Buffer Solution
Phosphate buffered saline

### Preservative Stabilisers
0.01% Thiomersal

### Approx. Protein Concentrations
Antibody concentration 0.5 mg/ml

### Immunogen
DJ-1 peptide oxidized at C106 (sequence LIAAIC(SO3)AGPTA).
**External Database Links**

- UniProt: Q99497
- Entrez Gene: 11315

**Specificity**

Human anti Human DJ-1 antibody, clone 3055 recognizes the human DJ-1 oncogene only when it is oxidized on cysteine C106. DJ-1 plays roles in transcriptional regulation and reaction to anti-oxidative stress. The oxidation status of DJ-1, particularly at C106, modulates the function of DJ-1 (Canet-Avilés et al. 2004). De-regulation of DJ-1 oxidation appears to be connected to the onset of conditions such as Parkinson’s Disease (Abou-Sleiman et al. 2003).

**References**


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

12 months from date of despatch.

**Acknowledgements**

Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. By purchasing this product, you agree that your Name and Affiliation will be sent to Dr. Ariga, Hokkaido University, who first published this antibody in the journal Neuroscience Letters (Vol. 404, pp.166-169, 2006).

**Health And Safety Information**


**Licensed Use**

For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

**Regulatory**

For research purposes only

**Technical Advice**

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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**Related Products**
Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP]
Mouse Anti Human C-MYC (MCA2200...) [HRP]