

Datasheet: HCA150

Description:	HUMAN ANTI HUMAN PINK1
Specificity:	PINK1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	11408
Isotype:	HuCAL Fab monovalent
Quantity:	0.1 mg

Product 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1:50
Immunohistology - Paraffin (1)	▪			1:50
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			2ug/ml
Functional Assays			▪	

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . The antibody is tagged with a V5 tag and a double extended Strep-tag at the C-terminus of the antibody heavy chain. This antibody is supplied lyophilised.
Reconstitution	Reconstitute with 1.0ml distilled water
Preparation	StrepTactin affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein	Total protein concentration 0.1mg/ml

Concentrations

Immunogen Peptide corresponding aa 321 – 511 of Human PINK1.

External Database Links

UniProt:
[Q9BXM7](#) [Related reagents](#)

Entrez Gene:
[65018](#) PINK1 [Related reagents](#)

Specificity

Human anti Human PINK1 antibody, clone 11408 recognizes Human PTEN-induced putative Kinase protein 1 (PINK1), a 581 aa single pass membrane protein belonging the Serine/Threonine protein kinase.

PINK1 protects against mitochondrial dysfunction during cellular stress, possibly by phosphorylating mitochondrial proteins. PINK1 is highly expressed in tissues such as the heart, skeletal muscle and testis. Lower expression levels are detected in the brain, placenta, liver, kidney, pancreas, prostate, ovary and small intestine.

Defects in PINK1 are the cause of autosomal recessive early-onset Parkinson disease 6 (PARK6).

Histology Positive Control Tissue

Human testis

Western Blotting

HCA150 detects a band of approximately 70kDa In human brain cell lysates.

References

1. Marzetti, E. *et al.* (2016) Altered mitochondrial quality control signaling in muscle of old gastric cancer patients with cachexia. [Exp Gerontol. Nov 12. pii: S0531-5565\(16\)30259-5. \[Epub ahead of print\]](#)

Storage

Prior to reconstitution store at +4°C.
After reconstitution 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 reconstitution.

Acknowledgements

Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.

Health And Safety Information

Material Safety Datasheet documentation #10041 available at <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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](#)

Related Products

Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [HRP](#)

Mouse Anti Viral V5-TAG (MCA1360...)

[Purified](#), [Alk. Phos.](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

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