

For Research Use Only

PARK7/DJ-1 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 68915-1-PBS



Basic Information

Catalog Number: 68915-1-PBS	GenBank Accession Number: BC008188	Purification Method: Protein G purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 11315	CloneNo.: 4E10B2
Source: Mouse	UNIPROT ID: Q99497	
Isotype: IgG1	Full Name: Parkinson disease (autosomal recessive, early onset) 7	
Immunogen Catalog Number: AG28526	Calculated MW: 189 aa, 20 kDa	
	Observed MW: 20-25 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, pig, rabbit

Product Information

68915-1-PBS targets PARK7/DJ-1 as part of a matched antibody pair:

MP50337-1: 68915-1-PBS capture and 68915-2-PBS detection (validated in Cytometric bead array)

MP50337-2: 68915-1-PBS capture and 68915-3-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

PARK7, also named as DJ1, belongs to the peptidase C56 family. It protects cells against oxidative stress and cell death. PARK7 plays a role in regulating expression or stability of the mitochondrial uncoupling proteins SLC25A14 and SLC25A27 in dopaminergic neurons of the substantia nigra pars compacta and attenuates the oxidative stress induced by calcium entry into the neurons via L-type channels during pacemaking. It eliminates hydrogen peroxide and protects cells against hydrogen peroxide-induced cell death. PARK7 has cell-growth promoting activity and transforming activity. It may function as a redox-sensitive chaperone. It's precursor undergoes a cleavage of a C-terminal peptide and subsequent activation of protease activity in response to oxidative stress. The amino acid replace at 166 (L → P) reduces PARK7 protein stability and leads to increased degradation. The predicted MW of this protein is 20 kDa, An additional 25 kDa band can be observed due to modification (PMID: 31767755).

Storage

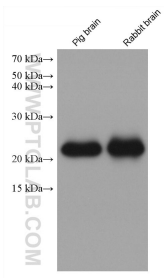
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

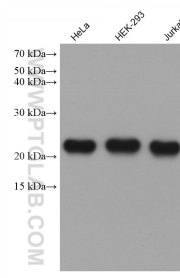
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

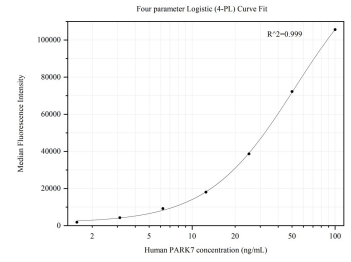
Selected Validation Data



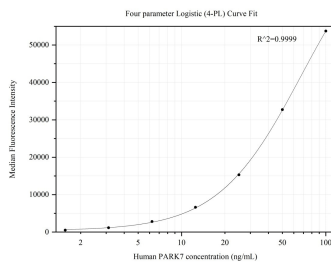
Various lysates were subjected to SDS PAGE followed by western blot with 68915-1-Ig (PARK7/DJ-1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68915-1-PBS in a different storage buffer formulation.



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Cytometric bead array standard curve of MP50337-1, PARK7/DJ-1 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68915-1-PBS. Detection antibody: 68915-2-PBS. Standard:Ag28526. Range: 1.563-100 ng/mL.



Cytometric bead array standard curve of MP50337-2, PARK7/DJ-1 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68915-1-PBS. Detection antibody: 68915-3-PBS. Standard:Ag28526. Range: 1.563-100 ng/mL.