

For Research Use Only

# CoraLite® Plus 488-conjugated PARK7,DJ-1 Polyclonal antibody



Catalog Number:CL488-11681

Featured Product

## Basic Information

|                                                                   |                                                                                |                                                                       |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Catalog Number:</b><br>CL488-11681                             | <b>GenBank Accession Number:</b><br>BC008188                                   | <b>Purification Method:</b><br>Antigen affinity purification          |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>11315                                                 | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                        |
| <b>Source:</b><br>Rabbit                                          | <b>Full Name:</b><br>Parkinson disease (autosomal<br>recessive, early onset) 7 | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>493 nm / 522 nm |
| <b>Isotype:</b><br>IgG                                            | <b>Calculated MW:</b><br>189 aa, 20 kDa                                        |                                                                       |
| <b>Immunogen Catalog Number:</b><br>AG2287                        | <b>Observed MW:</b><br>20 kDa, 25 kDa                                          |                                                                       |

## Applications

|                                                  |                                                  |
|--------------------------------------------------|--------------------------------------------------|
| <b>Tested Applications:</b><br>IF                | <b>Positive Controls:</b><br>IF : SH-SY5Y cells, |
| <b>Species Specificity:</b><br>human, mouse, rat |                                                  |

## 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. Its 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

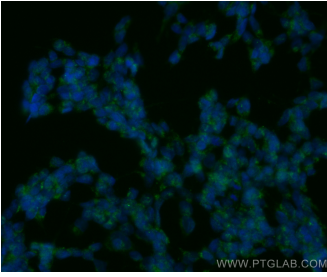
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

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



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using CoraLite® Plus 488 PARK7,DJ-1 antibody (CL488-11681) at dilution of 1:200.