

Rev03
Update: Dec,14,2021

DATASHEET

Parkin Antibody, pAb, Rabbit

Cat. No.: A01250

Overview

Specificity	GenScript Parkin Antibody, pAb, Rabbit detects endogenous levels of human, mouse and rat parkin protein.
Host Species	Rabbit
Immunogen	KLH-coupled synthetic peptide within residues 300-350 of human parkin protein (Swiss Prot: O60260)
Species Reactivity	Human, mouse, and rat. This product has not yet been tested with other species.
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

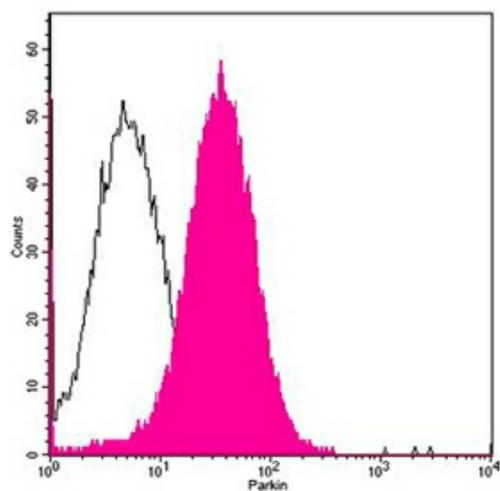
Application	Recommended Usage
ELISA	0.05-0.2 µg/ml
Western Blot	0.5-1 µg/ml
Other applications	User-optimized
IHC	5-10 µg/ml
Flow cytometry	1-3 µg for 1×10^6 cells

Properties

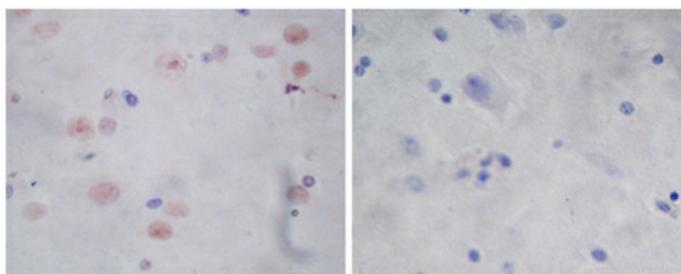
Form	Lyophilized
Storage Buffer	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
Storage Instructions	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
Purification	Affinity chromatography
Isotype	Rabbit IgG
Clonality	Polyclonal
Clone Id	Not applicable

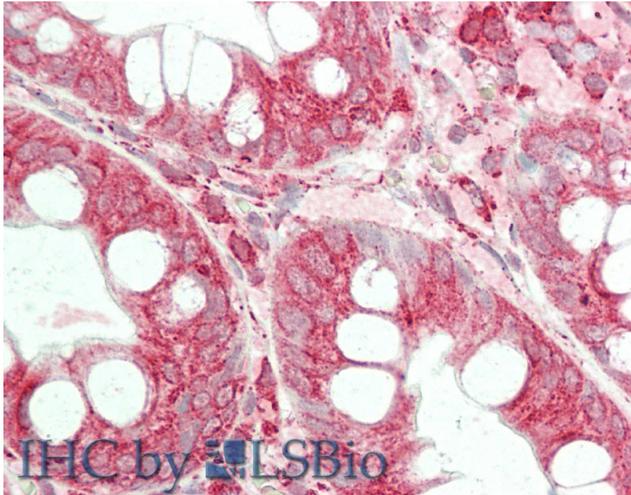
Examples



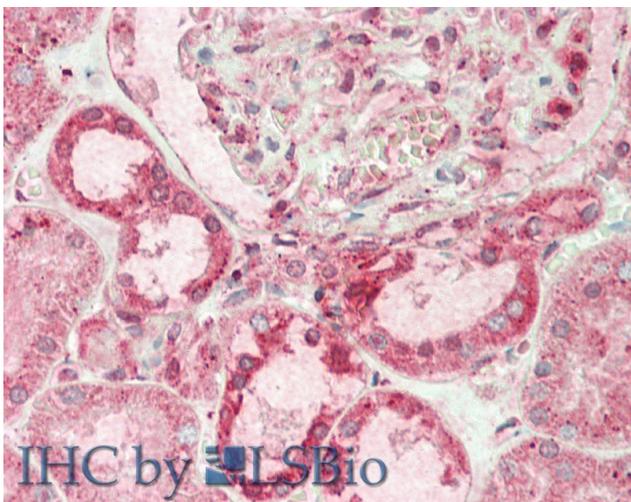
Flow cytometric analysis of HeLa cells using Parkin Antibody, pAb, Rabbit (GenScript, A01250; shaded histogram) or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG.



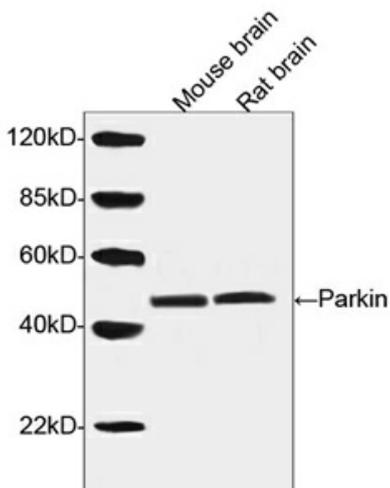
Immunohistochemistry analysis of human brain tissue slide (Paraffin embedded) using Rabbit Anti-Parkin Polyclonal Antibody (left, GenScript, A01250) and Purified Rabbit IgG (whole molecule) Control (right, GenScript, A01008)



Immunohistochemistry analysis of human colon tissue slide (Paraffin embedded) using Parkin Antibody, pAb, Rabbit (GenScript, Cat. No.A01250, 5 ug/ml).



Immunohistochemistry analysis of human kidney tissue slide (Paraffin embedded) using Parkin Antibody, pAb, Rabbit (GenScript, Cat. No.A01250, 5 ug/ml).



Western blot analysis of tissue lysates, using Parkin Antibody, pAb, Rabbit (GenScript, A01250, 1 ug/ml)
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.
Predicted Size: 51 kD
Observed Size: 51 kD

Background

Target Background : Parkin, also known as PARKIN2, is a novel protein in Ubl conjugation pathway. Parkin functions within a multiprotein E3 ubiquitin ligase complex, catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. These substrates include CCNE1, SYT11, GPR37, and STUB1, a 22 kDa O-linked glycosylated isoform of SNCAIP and SEPT5. Parkin may play a more general role in the ubiquitin proteasomal pathway by participating in the removal and/or detoxification of abnormally folded or damaged protein. The protein may protect neurons against alpha synuclein toxicity, proteasomal dysfunction, GPR37 accumulation, and kainate-induced excitotoxicity. Defects in PARK2 are a cause of Parkinson disease (PD). GenScript Parkin Antibody, pAb, Rabbit is developed in rabbit using a KLH-coupled synthetic peptide within residues 300-350 of human parkin protein (Swiss Prot: O60260).

Synonyms : Rabbit Anti-Parkin pAb;

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.