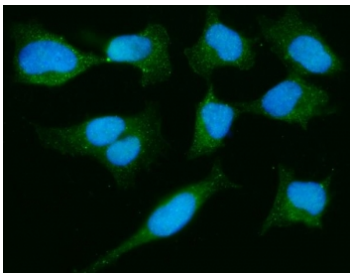
Parkinson disease protein 7 Antibody / PARK7 [clone 4B10] (RQ7624)

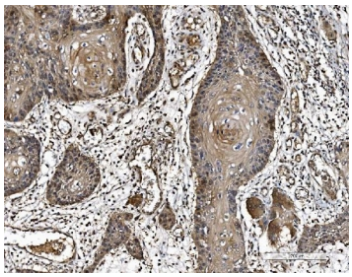
Catalog No.	Formulation	Size
RQ7624	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

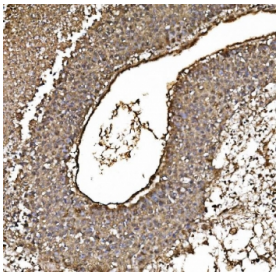
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	4B10
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q99497
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Parkinson disease protein 7 antibody is available for research use only.



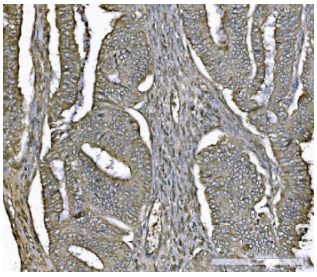
Immunofluorescent staining of FFPE human HeLa cells with Parkinson disease protein 7 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



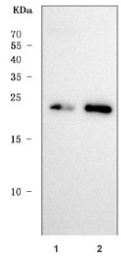
IHC staining of FFPE human esophageal squamous carcinoma tissue with Parkinson disease protein 7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



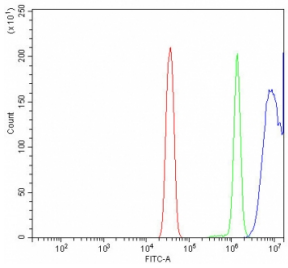
IHC staining of FFPE human liver cancer tissue with Parkinson disease protein 7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human endometrial carcinoma tissue with Parkinson disease protein 7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) U-2 OS and 2) HepG2 cell lysate with Parkinson disease protein 7 antibody. Predicted molecular weight ~20 kDa.



Flow cytometry testing of human HeLa cells with Parkinson disease protein 7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Parkinson disease protein 7 antibody.

Description

Parkinson disease (autosomal recessive, early onset) 7, also known as DJ1, is a protein which in humans is encoded by the PARK7 gene. PARK7 belongs to the peptidase C56 family of proteins. PARK7 is mapped to chromosome 1p36. It acts as a positive regulator of androgen receptor-dependent transcription. It is also involved in tumorigenesis and in maintaining mitochondrial homeostasis. This gene may also function as a redox-sensitive chaperone, as a sensor foroxidative stress, and it apparently protects neurons against oxidative stress and cell death. It has been found that PARK7 mutations that impair transcriptional coactivator function can render dopaminergic neurons vulnerable to apoptosis and may contribute to the pathogenesis of Parkinson disease.

Application Notes

Optimal dilution of the Parkinson disease protein 7 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids A2-D189) was used as the immunogen for the Parkinson disease protein 7 antibody.

Storage

After reconstitution, the Parkinson disease protein 7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.