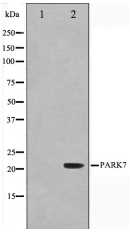
PARK7 Ab

Cat.#: AF0380	Concn.: 1mg/ml	Mol.Wt.: 20kDa,26kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

Application:	WB: 1:500~1:3000, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	PARK7 Ab detects endogenous levels of total PARK7.
Immunogen:	A synthesized peptide derived from human PARK7.
Uniprot:	Q99497
Description:	DJ-1 associated with autosomal recessive early onset parkinsonism. Involved in the oxidative stress response. Three cysteines in DJ-1 may be oxidized to cysteine sulphonic acid in the cellular response to H2O2. Loss of DJ-1 function may lead to neurodegeneration.
Subcellular Location:	Cytoplasm. Nucleus. Mitochondrion. Under normal conditions, located predominantly in the cytoplasm and, to a lesser extent, in the nucleus and mitochondrion. Translocates to the mitochondrion and subsequently to the nucleus in response to oxidative stress and exerts an increased cytoprotective effect against oxidative damage. Detected in tau inclusions in brains from neurodegenerative disease patients.
Tissue Specificity:	Highly expressed in pancreas, kidney, skeletal muscle, liver, testis and heart. Detected at slightly lower levels in placenta and brain (at protein level). Detected in astrocytes, Sertoli cells, spermatogonia, spermatids and spermatozoa. Expressed by pancreatic islets at higher levels than surrounding exocrine tissues (PubMed:22611253).
Similarity:	Belongs to the peptidase C56 family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis on HuvEc cell lysate using PARK7 Ab,The lane on the left is treated with the antigen-specific peptide.

AF0380 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.