Human/Mouse Park7/DJ-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3668

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Park7/DJ-1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse Park7/DJ-1 Ala2-Asp189 Accession # Q99LX0
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

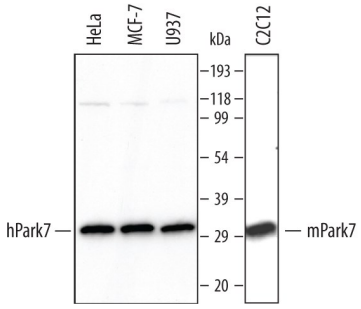
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Knockout Validated	Park7/DJ-1 is specifically detected in HEK293T human embryonic kidney parental cell line but is not detectable in Park7/DJ-1 knockout HEK293T cell line.	

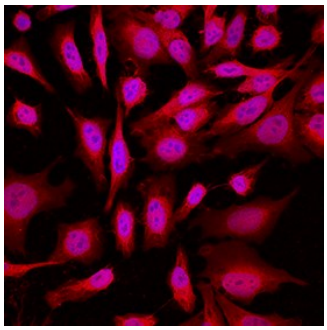
DATA

Western Blot



Detection of Human/Mouse Park7/DJ-1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, MCF-7 human breast cancer cell line, U937 human histiocytic lymphoma cell line, and C2C12 mouse myoblast cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse Park7/DJ-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3668) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # HAF019). A specific band was detected for Park7/DJ-1 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Park7/DJ-1 in HeLa Human Cell Line. Park7/DJ-1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human/Mouse Park7/DJ-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3668) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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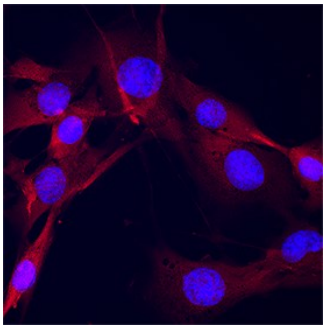
Human/Mouse Park7/DJ-1 Antibody

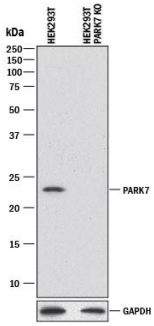
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3668

Immunocytochemistry



Park7/DJ-1 in C2C12 Mouse Cell Line. Park7/DJ-1 was detected in immersion fixed C2C12 mouse myoblast cell line using Goat Anti-Human/Mouse Park7/DJ-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3668) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Knockout Validated



Western Blot Shows Human Park7/DJ-1 Specificity by Using Knockout Cell Line. Western blot shows lysates of HEK293T human embryonic kidney parental cell line and Park7 knockout HEK293T cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse Park7/DJ-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3668) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # HAF017). A specific band was detected for Park7/DJ-1 at approximately 23 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in knockout HEK293T cell line. GAPDH (Catalog # Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Park7, also known as DJ-1, is a cytoplasmic protein that belongs to the ThiJ/Pfp1/DJ-1 superfamily of highly conserved proteins that function as protein chaperones, catalases, proteases and kinases. Park7 is widely expressed in the brain as well as in peripheral tissues. It exists as a homodimer that can be localized in the cytoplasm, nucleus and mitochondria. Park7 is a redox-sensitive protein that has been ascribed various functions including that as a redox sensor and antioxidant protein. Mutations in Park7 are associated with a small percentage of hereditary early onset Parkinson's disease. Human and mouse Park7 share 92% amino acid sequence identity.

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