

# DJ-1 Monoclonal Antibody (4H4)

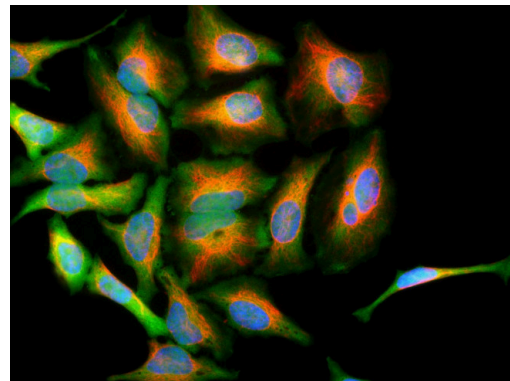
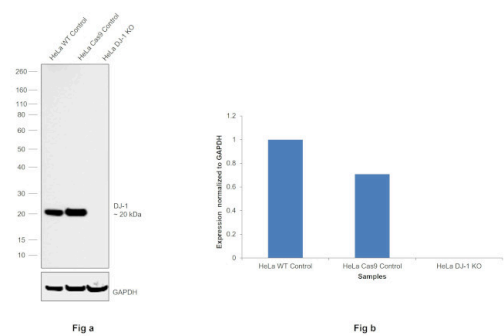
Product Details	
Size	100 µL
Species Reactivity	Bovine, Human, Mouse, Rat
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	4H4
Conjugate	Unconjugated
Immunogen	Full length recombinant human Park7 expressed in and purified from E. coli
Form	liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	10mM sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2802649

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	-
Immunohistochemistry (IHC)	1:5,000	-
Immunocytochemistry (ICC/IF)	1:1,000-1:5,000	-

Product Images For DJ-1 Monoclonal Antibody (4H4)

DJ-1 Antibody (MA5-33099)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in DJ-1 KO cell line compared to control cell line using DJ-1 Monoclonal Antibody (4H4) (Product # MA5-33099). {KO}



DJ-1 Antibody (MA5-33099) in ICC/IF

Immunocytochemistry analysis of DJ-1 in HeLa cells stained with DJ-1 monoclonal antibody (Product # MA5-33099) using a dilution of 1:1,000 (green) showing strong cytoplasmic staining and Anti-Vimentin using a dilution of 1:10,000 (red) labeling cytoplasmic intermediate filaments. The blue is nuclear staining.

DJ-1 Antibody (MA5-33099) in WB

Knockout of DJ-1 was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042 Assay ID CRISPR821492\_TG) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of DJ-1 was performed by loading 30 µg of HeLa Wild Type (Lane 1), HeLa Cas9 (Lane 2) and HeLa DJ-1 KO (Lane 3) whole cell extracts. The samples were electrophoresed using NuPAGE™ Novex™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with DJ-1 Monoclonal Antibody (4H4) (Product # MA5-33099, 1:1,000) and detected by Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:5,000) using the iBright™ FL1500 (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to DJ-1.

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