

## Monoclonal Antibody to Prohibitin (Mitochondrial Marker)

<b>Catalog No.:</b>	DM323P
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.2 mg/ml
<b>Background:</b>	Prohibitin is an evolutionary conserved protein located in the inner membrane of mitochondria. Prohibitin appears to be a very reliable marker of mitochondria. Prohibitin shows antiproliferative activity and has been proposed to play a role in normal cell cycle regulation, replicative senescence, cellular immortalization, and tumor suppression.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Recommended Isotype Controls:</b>	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
<b>Clone:</b>	II-14-10
<b>Immunogen:</b>	Purified recombinant rat prohibitin protein (30 kDa)
<b>Format:</b>	<b>State:</b> Liquid <b>Purification:</b> Protein G affinity purified <b>Buffer System:</b> 10 mM PBS with 0.09% Sodium Azide as preservative and 0.2% BSA as stabilizer
<b>Applications:</b>	Immunofluorescence. Immunoprecipitation (Native and denatured; 2µg/mg protein lysate, use Protein G). Western Blotting (0.5-1µg/ml for 2hrs at RT). Immunohistology (Formalin/paraffin; 2-4µg/ml for 30 min at RT, requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Recommended positive control: MAD109 or PC12 Cells, Heart). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Highly specific for prohibitin. In immunohistochemistry typical cytoplasmic staining pattern is observed. <b>Species:</b> Reacts with Human, Pig, Rat, Mouse, and Chicken. Other species not tested.
<b>Storage:</b>	Store the antibody at 4°C. Do not freeze! Shelf life: one year from despatch
<b>General Readings:</b>	1. McClung JK, Jupe ER, Liu XT, Dell'Orco RT. Prohibitin: potential role in senescence, development, and tumor suppression. <i>Exp Gerontol.</i> 1995 Mar-Apr;30(2):99-124. PubMed PMID: 8591812. 2. Terashima M, Kim KM, Adachi T, Nielsen PJ, Reth M, Köhler G, et al. The IgM antigen receptor of B lymphocytes is associated with prohibitin and a prohibitin-related protein.

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EMBO J. 1994 Aug 15;13(16):3782-92. PubMed PMID: 8070406.  
3. Sato, T., et al Can

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