

ARG55804 anti-Peroxiredoxin 2 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Peroxiredoxin 2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Peroxiredoxin 2
Species	Human
Immunogen	Recombinant protein of Human Peroxiredoxin 2 (NP_005800.3)
Conjugation	Un-conjugated
Alternate Names	EC 1.11.1.15; TPX1; TDPX1; HEL-S-2a; PTX1; Thiol-specific antioxidant protein; PRX2; TSA; Peroxiredoxin-2; PRP; Thioredoxin-dependent peroxide reductase 1; NKEF-B; NKEFB; Natural killer cell-enhancing factor B; Thioredoxin peroxidase 1; PRXII

Application Instructions

Predict Reactivity Note	Rat						
Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>ICC/IF</td><td>1:50 - 1:200</td></tr> <tr> <td>WB</td><td>1:500 - 1:2000</td></tr> </table>	Application	Dilution	ICC/IF	1:50 - 1:200	WB	1:500 - 1:2000
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ICC/IF	1:50 - 1:200						
WB	1:500 - 1:2000						
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.						
Positive Control	Mouse brain and HepG2						
Observed Size	~ 20 kDa						

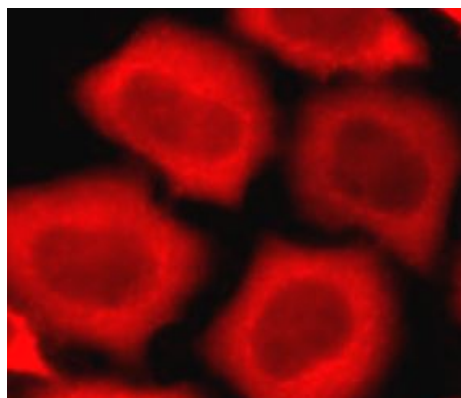
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

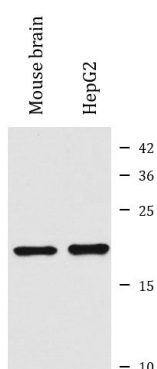
Gene Symbol	PRDX2
Gene Full Name	peroxiredoxin 2
Background	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]
Function	Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system. It is not able to receive electrons from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). [UniProt]
Calculated Mw	22 kDa

Images



ARG55804 anti-Peroxiredoxin 2 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG55804 anti-Peroxiredoxin 2 antibody.



ARG55804 anti-Peroxiredoxin 2 antibody WB image

Western blot: Mouse brain and HepG2 cell lysates stained with ARG55804 anti-Peroxiredoxin 2 antibody.