

Product Datasheet

Peroxiredoxin 1/PAG (6A6) Mouse mAb

Catalog No: AB3459

Reactivity: Human, Mouse, Rat

Isotype: Mouse IgG1

Applications: WB, IHC, ICC/IF



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Information

UniProt ID: Q06830

All Names: Hbp23, Heme binding 23kDa protein, Macrophage stress protein 22kDa, MSP23, NKEF A, Prdx1

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 21kDa

Application

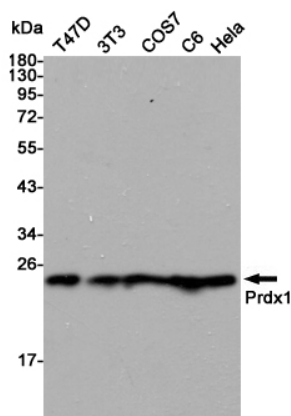
WB: 1/500-1/3000

IHC: 1/50-1/100

ICC/IF: 1/50-1/200

Background

Swiss-Prot Acc.Q06830. Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H₂O₂ (PubMed:9497357). Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation .



Western blot detection of Prdx 1 in T47D, 3T3, COS7, C6 and HeLa cell lysates using Prdx 1 mouse mAb (1:3000 diluted). Predicted band size: 21kDa. Observed band size: 21kDa.

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