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MW (kDa): Applications: Reactivity: Sensitivity: Source/Isotype: UniProt ID: Entrez-Gene Id: W HMR Endogenous 25 Rabbit #P30041 9588 Product Usage Application Dilution Information Western Blotting 1:1000 Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. Specificity/Sensitivity Prdx6 Antibody recognizes endogenous levels of total Prdx6 protein. Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Prdx6 protein. Antibodies are purified by protein A and peptide affinity chromatography. Background Peroxiredoxin 6 (Prdx6) belongs to an antioxidant enzyme family of non-seleno peroxidases (prdx). It is a unique member of the Prdx family exhibiting both glutathione peroxidase and phospholipase A2 activities (1,2). Prdx6 regulates phospholipid turnover as well as protects cells against oxidative injury. Prdx6 is expressed in all major organs with a particularly high level in lung where it regulates lung surfactant phospholipid synthesis and turnover (3-5). Studies show Prdx6 is aberrantly expressed in various cancers and promotes cancer cell metastasis and invasion (6,7). Elevated expression of Prdx6 and other prdx family members contributes to drug resistance in cancer cells (8,9). Prdx6 is also expressed in neutrophils, where it regulates the function of these cells and activates NADPH oxidase (Nox2) (10-12). **Background References** 1. Kang, S.W. et al. (1998) J Biol Chem 273, 6303-11. 2. Chen, J.W. et al. (2000) J Biol Chem 275, 28421-7. 3. Manevich, Y. and Fisher, A.B. (2005) Free Radic Biol Med 38, 1422-32. 4. Schremmer, B. et al. (2007) Subcell Biochem 44, 317-44. 5. Lee, S.B. et al. (2009) Mol Cells 28, 583-8. 6. Ho, J.N. et al. (2010) Mol Cancer Ther 9, 825-32. 7. Yun, H.M. et al. (2014) Free Radic Biol Med 69, 367-76. 8. Pak, J.H. et al. (2011) Cancer Invest 29, 21-8. 9. Kalinina, E.V. et al. (2012) Bull Exp Biol Med 153, 878-81. 10. Chatterjee, S. et al. (2011) / Biol Chem 286, 11696-706.

Species ReactivitySpecies reactivity is determined by testing in at least one approved application (e.g., western blot).Western Blot BufferIMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X
TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.Applications KeyW: Western BlottingCross-Reactivity KeyH: Human M: Mouse R: RatTrademarks and PatentsCell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
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