

ORP150 Antibody

A New Stress Protein: Oxygen Regulated Protein, p150

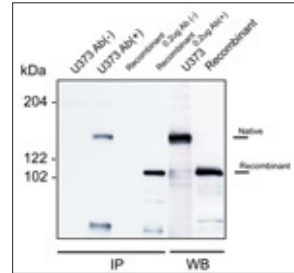
Code No.	Name		Volume	Application to WB	Application to IP	Application to IHC
10301	Anti-Human	ORP150 (2F07)	Mouse IgG MoAb	100 ug	1 μ g/mL	1 - 5 μ g/mL

Heat shock proteins (HSPs) / stress proteins are molecular chaperones that are induced by various environmental and physiological stimuli. The 150-kDa oxygen-regulated protein (ORP150), a new member of HSP family, functions as a molecular chaperone in the endoplasmic reticulum (1). It is reported that the ORP150 is an integral participant in ischemic cyto-protective pathways. (2).

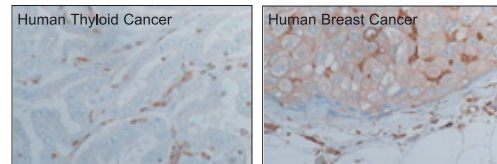
And, the ORP150 is expressed in human wounds along with VEGF. Colocalization of these two molecules was observed in macrophages in the neovasculature, suggesting a role of ORP150 in the promotion of angiogenesis (3).

Furthermore, ORP150 is up-regulated in tumors and, in breast tumors, may be associated with tumor invasiveness.

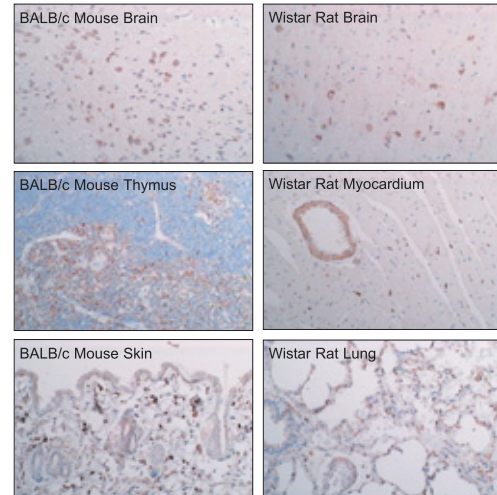
- Can be Applied to both Western Blotting and Immunoprecipitation



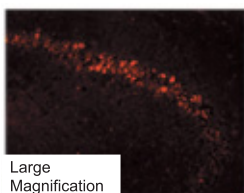
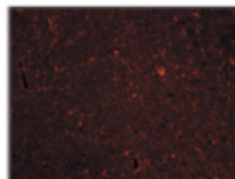
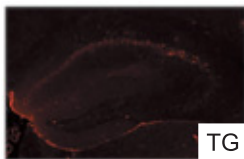
- Can be Applied to Immunohistochemistry (MW Pre-treatment is necessary)



- Cross Reacts with Mouse and Rat



Mouse Hippocampus Mouse Cerebellum



Specificities of ORP150 (150kDa Oxygen Regulated Protein) with ORP150 transgenic mouse and knockout mouse
The photos are kindly offered by Dr. Kitao Y, Dept. of Neural Molecule Target, Kanazawa Univ. School of Medicine.

Reference :

- Ikeda J. et al. Cloning and expression of cDNA encoding the human 150kDa oxygen-regulated protein, ORP150. *Biochem. Biophys. Res. Commun.* 230: 94-99 (1997)
- Tamatani M. et al. ORP150 protects against hypoxia/ischemia-induced neuronal death. *Nature Medicine.* 7: 317-323 (2001)
- Ozawa K. et al. Expression of the oxygen-regulated protein ORP150 accelerates wound healing by modulating intracellular VEGF transport. *J. Clin. Invest.* 108: 41-50, (2001)
- Tsukamoto Y. et al. Expression of the 150-kd oxygen-regulated protein in human breast cancer. *Lab. Invest.* 78: 699-706 (1998)

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