IBL Data Sheet

Code No. 10301

Anti-Human
ORP150 (Oxygen Regulated Protein, p150) (2F07) Mouse IgG MoAb

Volume : 100 µg

Introduction : 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 (ref. 1). It is reported that the ORP150 is an integral participant in ischemic cytoprotective pathways. (ref. 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 (ref. 3). Furthermore, ORP150 is up-regulated in tumors and, in breast tumors, may be associated with tumor invasiveness.

Antigen : Recombinant Protein ORP150 (Leu 508 - Leu 999)

Source : Mouse-Mouse hybridoma
(X63-Ag8.653×BALB/c mouse)

Clone : 2F07 **Subclass** : IgG2a

Purification : Purified with protein A

Form : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product, then the concentration comes to 100 µg/mL

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave pre-treatment *[1] by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is about 5 µg/mL, however, the concentration should be optimized by each laboratory.
*1 heat for 10 minutes after boiling by microwave oven (in 10 mM citric acid buffer pH6.0)
: This antibody can be used for western blotting in concentration of about 1 µg /mL.
: This antibody can be used for immuno-precipitation (both recombinant and native forms can be applied.)

Specificity : Confirmed with TG and KO mouse

References :

1. 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)
2. Tamatani M. *et al*. ORP150 protects against hypoxia/ischemia-induced neuronal death. Nature Medicine. 7: 317-323 (2001)
3. Ozawa K. *et al*. Expression of the oxygen-regulated protein ORP150 accelerates wound healing by modulatin intracellular VEGF transport.J. Clin. Invest. 108: 41-50, (2001)
4. Tsukamoto Y. *et al*. Expression of the 150-kd oxygen-regulated protein in human breast cancer. Lab. Invest. 78: 699-706 (1998)

Distributed by:
Immuno-Biological Laboratories, Inc.
8201 Central Ave NE, Suite P
Minneapolis, MN 55432
Toll-Free: 888-523-1246
Email: info@IBL-America.com
Web: www.IBL-America.com

Immuno-Biological
Laboratories Co., Ltd.