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p62 (Phospho-Ser28) Antibody

#58032

Number: 58032

Amount: 100μg/100μl

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: synthetic phosphopeptide corresponding to residues surrounding Ser28 of human p62

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phospholation site.

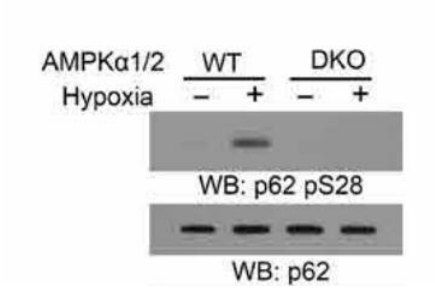
Specificity/Sensitivity: p62 （Phospho-Ser28)antibody detects endogenous levels of p62 only when phospholated at Serine28 .

Reactivity: Human

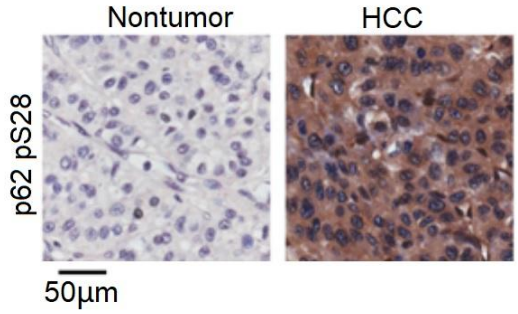
Applications:

Predicted MW: 62KD

WB :1:500~1:1000 IHC:1:50-200



WT and AMPK α 1/2 DKO MEFs were treated with or without hypoxia for 6 hours in the presence of the lysosome inhibitor CQ (10 μM). Immunoprecipitation or immunoblot analyses were performed with the indicated antibodies.



IHC staining of 30 human HCC and matched nontumor tissue samples was performed with the indicated antibodies.

Background :KHK-A acts as a protein kinase to phosphorylate p62 at S28, thereby blocking p62 ubiquitination and enhancing p62 aggregation with Keap1 and Nrf2 activation. Activated Nrf2 promotes expression of genes involved in reactive oxygen species reduction, cell survival, and HCC development. The phosphorylation of p62 at S28 are positively correlated in human HCC specimens and with poor prognosis of patients with HCC[1] .

Reference:[1] Xu D, Li X, Shao F, Lv G, Lv H, Lee JH, Qian X, Wang Z, Xia Y, Du L, Zheng Y, Wang H, Lyu J, Lu Z. The protein kinase activity of fructokinase A specifies the antioxidant responses of tumor cells by phosphorylating p62. Sci Adv. 2019 Apr 24;5(4):eaav4570. doi: 10.1126/sciadv.aav4570 .