Niban(Phospho-Ser602) Antibody

#11578

Catalog Number: 11578

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: The antiserum was produced against synthesized phosphopeptide derived from human Niban around the phosphorylation site of Ser602

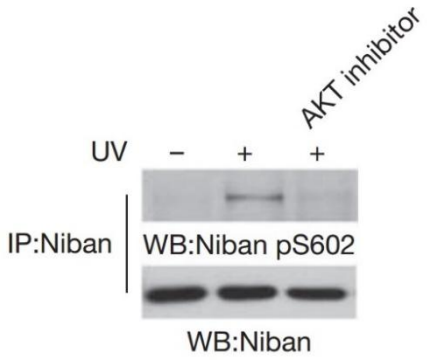
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Specificity/Sensitivity: Niban (phospho-Ser602) antibody detects endogenous levels of Niban only when phosphorylated at Serine602.

Reactivity: Human,Mouse,Rat

Applications:

Predicted MW: 95 kd WB: 1:500~1:1000 IHC:1:50-200



U87 cells were pretreated with or without AKT inhibitor (10 mM) for 30 min before irradiation with or without ultraviolet. The cells were collected 3 h after ultraviolet irradiation. Immunoprecipitation and immunoblotting analyses were performed with the indicated antibodies.

Background : The Niban gene, also known as family with sequence similarity 129, member A (FAM129A), consists of 14 exons located on human chromosome 1. Niban is highly expressed in human cancer cells. Ultraviolet irradiation results in phosphorylation of Niban at S602 by AKT, which promotes the association of Niban with NPM and inhibits the regulatory effect of NPM on p53–MDM2 complexes, thereby destabilizing p53 and inhibiting p53-dependent apoptosis. Conversely, depletion of or deficiency in Niban expression promotes stabilization of p53 with increased cell apoptosis [i].

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[i] Ji H, Ding Z, Hawke D, Xing D, Jiang BH, Mills GB, Lu Z. AKT-dependent phosphorylation of Niban regulates nucleophosmin- and MDM2-mediated p53 stability and cell apoptosis. ***EMBO Rep.*** 2012 Jun 1;13(6):554-60. doi: 10.1038/embor.2012.53.