IBL Data Sheet

Code No. 10405

Anti-Human
Niban (110C4) Mouse IgG MoAb

Volume : 100 µg

Introduction : *Niban* has been cloned from cell lines derived from Eker rat by AFLP-Differential Display method as a novel gene which is increased in the early stage of renal carcinogenesis (ref. 6). Then, it has been reported that Niban protein is expressed in various cancer tissues including thyroid cancer. In research of recent years, it has been reported that Niban is an ER stress-inducible protein and it regulates phosphorylation of eIF2α and S6K1/4E-BP1 (ref. 3).

Antigen : Recombinant human Niban protein

Source : Mouse-Mouse hybridoma
(X63 - Ag 8.653 × BALB/c mouse spleen cells)

Clone : 110C4 **Subclass** : IgG_1

Purification : Affinity 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 its 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. The recommended concentration is about 1 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of about 5 µg/mL

Reference :

1. 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.
2. Ito S, Fujii H, Matsumoto T, Abe M, Ikeda K, Hino O. Frequent expression of Niban in head and neck squamous cell carcinoma and squamous dysplasia. Head Neck. 2010 Jan;32(1):96-103.
3. Sun GD, Kobayashi T, Abe M, Tada N, Adachi H, Shiota A, Totsuka Y, Hino O. The endoplasmic reticulum stress-inducible protein Niban regulates eIF2alpha and S6K1/4E-BP1 phosphorylation. Biochem Biophys Res Commun. 2007 Aug 17;360(1):181-7.
4. Matsumoto F, Fujii H, Abe M, Kajino K, Kobayashi T, Matsumoto T, Ikeda K, Hino O. A novel tumor marker, Niban, is expressed in subsets of thyroid tumors and Hashimoto's thyroiditis. Hum Pathol. 2006 Dec;37(12):1592-600.
5. Adachi H, Majima S, Kon S, Kobayashi T, Kajino K, Mitani H, Hirayama Y, Shiina H, Igawa M, Hino O. Niban gene is commonly expressed in the renal tumors: a new candidate marker for renal carcinogenesis. Oncogene. 2004 Apr 22;23(19):3495-500.
6. Majima S, Kajino K, Fukuda T, Otsuka F, Hino O. A novel gene "Niban" upregulated in renal carcinogenesis: cloning by the cDNA-amplified fragment length polymorphism approach. Jpn J Cancer Res. 2000 Sep;91(9):869-74.

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