

Basic Information

Product Name	Anti-NEDD4 Antibody (Clone#AEGB-14)		
Gene Name	NEDD4		
Source	Rabbit		
Clonality	Monoclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat		
Tested Application	WB, IHC, IP, FCM		
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.		
Immunogen	A synthesized peptide derived from human NEDD4 E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in the pathway leading to the degradation of VEGFR-2/KDFFR, independently of its ubiquitin-ligase activity.		
Concentration	500 ug/ml		
Purification	Affinity-chromatography		
Observed MW	135 kDa		
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 ImmunoPrecipitation (IP): 1:50 Flow Cytometry (FCM): 1:50		

Storage

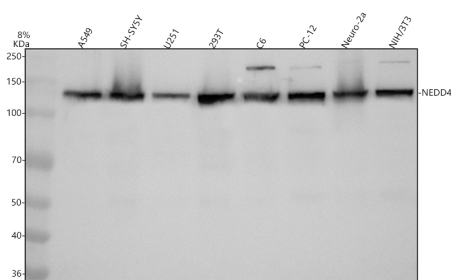
12 months from date of receipt, -20°C as supplied.

Background Information

E3 ubiquitin-protein ligase NEDD4, also known as neural precursor cell expressed developmentally down-regulated protein 4 (NEDD4), is an enzyme that in humans is encoded by the NEDD4 gene. This gene is the founding member of the NEDD4 family of HECT ubiquitin ligases that function in the ubiquitin proteasome system of protein degradation. The encoded protein contains an N-terminal calcium and phospholipid binding C2 domain followed by multiple tryptophan-rich WW domains and, a C-terminal HECT ubiquitin ligase catalytic domain. It plays critical role in the

regulation of a number of membrane receptors, endocytic machinery components and the tumor suppressor PTEN.

Selected Validation Data



Western blot analysis of anti-NEDD4 antibody (BM5598). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,

Lane 2: human SH-SY5Y whole cell lysates,

Lane 3: human U251 whole cell lysates,

Lane 4: human 293T whole cell lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: rat PC-12 whole cell lysates,

Lane 7: mouse Neuro-2a whole cell lysates,

Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-NEDD4 antigen

affinity purified monoclonal antibody (BM5598) at a dilution of

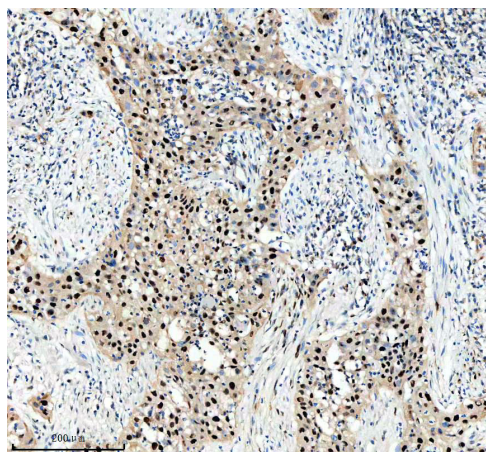
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for NEDD4 at approximately 130 kDa. The expected band

size for NEDD4 is at 149 kDa.



IHC analysis of NEDD4 using anti-NEDD4 antibody (BM5598) .

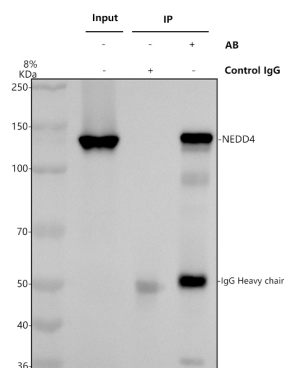
NEDD4 was detected in a paraffin-embedded section of human

bladder cancer tissue. The tissue section was incubated with rabbit

anti-NEDD4 Antibody (BM5598) at a dilution of 1:200 and developed

using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog #

SV0002) with DAB (Catalog # AR1027) as the chromogen.



IP analysis of NEDD4 using anti-NEDD4 antibody (BM5598) in A549 whole cell lysate.

Western blot analysis of NEDD4 using anti- NEDD4 antibody (BM5598).

Lane 1: A549 whole cell lysates(30ug),

Lane 2: Rabbit control IgG instead of anti- NEDD4 antibody in A549 whole cell lysate,

Lane 3: anti- NEDD4 antibody (2μg) + A549 whole cell lysate (500μg).

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti- NEDD4 antigen affinity purified monoclonal antibody (BM5598) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NEDD4 at approximately 135 kDa. The expected band size for NEDD4 is at 150 kDa.