NBR1
Polyclonal ANTIBODY

Catalog Number: 16004-1-AP

Basic Information

Catalog Number: 16004-1-AP
GenBank Accession Number:
BC009808
GeneID (NCBI): 4077

Full Name:
neighbor of BRCA1 gene 1

Calculated MW:
9666aa, 107 kDa
Observed MW:
140 kDa

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 μg for IP and 1:500-1:1000 for WB
IHC 1:50-1:500
IF 1:10-1:100

Size:
63 μg/150 μl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG8652

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, mouse, rat, monkey

Cited Species:
dog, human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

NBR1, also named as 1A13B, KIAA0049 and M17S2, acts probably as a receptor for selective autophagosomal degradation of ubiquitinated targets. NBR1 and P62 can bind to autophagic effector proteins (Atg8 in yeast, MAP1LC3 protein family in mammals) anchored in the membrane of autophagosomes. It is a highly conserved multidomain scaffold protein with proposed roles in endocytic trafficking and selective autophagy. NBR1 is a novel PB1 adapter in Th2 differentiation and asthma. It functions as an autophagy receptor involved in targeting ubiquitinated proteins for degradation. It also has a dual role as a scaffold protein to regulate growth-factor receptor and downstream signaling pathways. Observed MW of NBR1 is 160 kDa (PMID: 22654911, PMID: 22484440).

Notable Publications

Author
Marie Chollat-Namy
Hongyu Li
Qiong Lin

Pubmed ID
31541080
30160596
29021346

Journal
Cell Death Dis
Autophagy
J Cell Sci

Application
WB, IP
WB
WB

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data

Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 16004-1-AP (NBR1 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 16004-1-AP (NBR1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

HeLa cells were subjected to SDS PAGE followed by western blot with 16004-1-AP (NBR1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

IP Result of anti-NBR1 (IP: 16004-1-AP, 4ug; Detection: 16004-1-AP 1:800) with HeLa cells lysate 2500ug.

Immunofluorescent analysis of Hela cells, using NBR1 antibody 16004-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).

$1 \times 10^6$ HeLa cells were stained with 0.2ug NBR1 antibody (16004-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) with dilution 1:1500.