

For Research Use Only

# CoraLite® Plus 488-conjugated NBR1 Polyclonal antibody

Catalog Number: CL488-16004

Featured Product



## Basic Information

Catalog Number:

CL488-16004

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8652

GenBank Accession Number:

BC009808

GeneID (NCBI):

4077

UNIPROT ID:

Q14596

Full Name:

neighbor of BRCA1 gene 1

Calculated MW:

966 aa, 107 kDa

Observed MW:

140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat, monkey

Positive Controls:

IF/ICC : HeLa cells,

FC (Intra) : HeLa cells,

## 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 140 kDa (PMID: 22654911, PMID: 22484440).

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

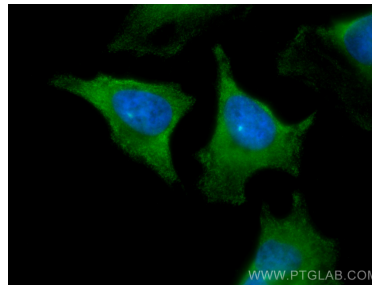
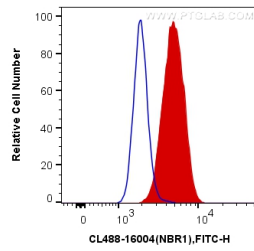
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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human NBR1 (CL488-16004) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.

Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CoraLite® Plus 488 NBR1 antibody (CL488-16004) at dilution of 1:200.