NCDN Recombinant antibody, PBS Only

Catalog Number:85730-1-PBS

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Basic Information

Catalog Number:	85730-1-PBS
Concentration:	1 mg/ml
Source:	Rabbit
Isotype:	IgG
Immunogen Catalog Number:	AG3859

GenBank Accession Number:	BC024592
GeneID (NCBI):	23154
UNIPROT ID:	Q9UBB6
Full Name:	neurochondrin
Calculated MW:	729 aa, 79 kDa
Observed MW:	75-79 kDa

Purification Method:	Protein A purification
CloneNo.:	243146E2

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

NCDN protein (Neurochondrin) is a highly conserved 79 kDa adaptor protein, which was first discovered in 1997 and mainly expressed in the nervous system. NCDN protein plays an important role in neuronal differentiation, formation and maintenance of dendritic spines. It is involved in the development of synapses, neuronal differentiation and signal transduction, and maintains cell polarity by regulating dendritic morphogenesis and neural signal pathway. Recent studies have found that NCDN protein is expressed not only in neurons, but also in myeloid cells (such as neutrophils), and plays a role as a negative regulator of innate immunity. Mice lacking NCDN in myeloid cells are more immune to bacterial infection because of the increased reactivity of neutrophils (PMID: 37503670). The molecular weight of NCDN is 78 kDa.
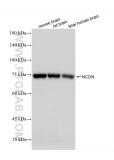
Storage

Storage:
Store at -80℃.
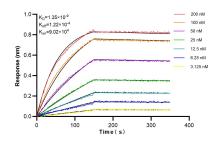The product is shipped with ice packs. Upon receipt, store it immediately at -80℃
Storage Buffer:
PBS only, pH7.3

$K_D = 1.35 \times 10^{-9}$
$K_{off} = 1.22 \times 10^{-4}$
$K_{on} = 9.02 \times 10^{4}$

Various lysates were subjected to SDS PAGE followed by western blot with 85730-1-RR (NCDN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85730-1-PBS in a different storage buffer formulation.

Biolayer interferometry (BLI) kinetic assays of 85730-1-RR against Human NCDN were performed. The affinity constant is 1.35 nM.