



CARD15/NOD2 mouse mAb

Catalog No	YP-mAb-18010
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NOD2 CARD15 IBD1
Immunogen	Synthesized peptide derived from human CARD15/NOD2
Specificity	This antibody detects endogenous levels of CARD15/NOD2 at Human
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CARD15;Caspase recruitment domain-containing protein 15;Nucleotide-binding oligomerization domain-containing protein 2;NOD2;NOD2 CARD15 IBD1; Nucleotide-binding oligomerization domain-containing protein 2 (Caspase recruitment domain-containing protein 15) (Inflammatory bowel disease protein 1)
Observed Band	114kD
Calculated Molecular Weight	115 kDa
Cell Pathway	Cell membrane . Cytoplasm . Membrane . Mitochondrion . Basolateral cell membrane .
Tissue Specificity	Mainly expressed in monocytes (PubMed:11087742). Expressed also in intestinal mucosa, mainly in Paneth cells and, at lower extent, in the glandular epithelium (PubMed:22700971).
Function	Pattern recognition receptor (PRR) that detects bacterial peptidoglycan fragments and other danger signals and plays an important role in gastrointestinal immunity . Upon stimulation by muramyl dipeptide (MDP), a fragment of bacterial peptidoglycan, binds the proximal adapter receptor-interacting RIPK2, which recruits ubiquitin ligases as XIAP, BIRC2, BIRC3, INAVA and the LUBAC complex, triggering activation of MAP kinases and



activation of NF-kappa-B signaling . This in turn leads to the transcriptional activation of hundreds of genes involved in immune response. Required for MDP-induced NLRP1-dependent CASP1 activation and IL1B release in macrophages . Component of an autophagy-mediated antibacterial pathway together with ATG16L1 . Plays also a role in sensing single-stranded RNA (ssRNA) from viruses. Interacts with mitochondrial antiviral signaling/MAVS, leading to activation of inte

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images