

anti- NLRP1 antibody

Product Information

Catalog No.:	FNab05757
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

As the sensor component of the NLRP1 inflammasome, plays a crucial role in innate immunity and inflammation. In response to pathogens and other damage-associated signals, initiates the formation of the inflammasome polymeric complex, made of NLRP1, CASP1, and possibly PYCARD. Recruitment of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and secretion in the extracellular milieu. Activation of NLRP1 inflammasome is also required for HMGB1 secretion. The active cytokines and HMGB1 stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death(PubMed:22665479, PubMed:17418785). May be activated by muramyl dipeptide(MDP), a fragment of bacterial peptidoglycan, in a NOD2-dependent manner(PubMed:18511561). Contrary to its mouse ortholog, not activated by Bacillus anthracis lethal toxin(PubMed:19651869). It is unclear whether isoform 2 is involved in inflammasome formation. It is not cleaved within the FIIND domain, does not assemble into specks, nor promote IL1B release(PubMed:22665479). However, in an vitro cell-free system, it has been shown to be activated by MDP(PubMed:17349957). Binds ATP(PubMed:11113115, PubMed:15212762).

Immunogen information

Immunogen:	NLR family, pyrin domain containing 1
Synonyms:	CARD7, CLR17.1, DEFCAP, DEFCAP L/S, DKFZp586O1822, KIAA0926, NAC, NALP1, NLRP1, PP1044, SLEV1, VAMAS1

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Observed MW: 166kd
Uniprot ID : Q9C000

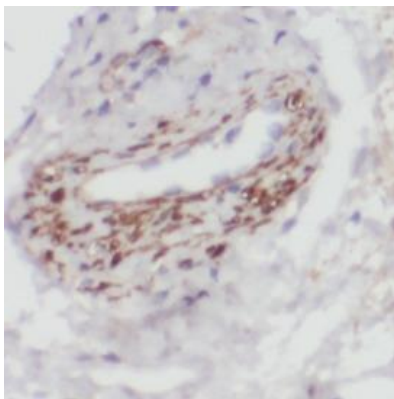
Application

Reactivity: Human, Mouse, Rat

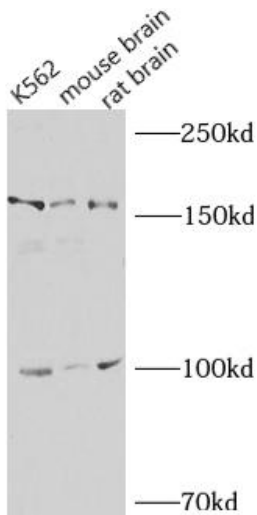
Tested Application: ELISA, IHC, WB

Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human tonsillitis tissue slide using FNab05757(NLRP1 antibody) at dilution of 1:50



Various lysates were subjected to SDS PAGE followed by western blot with FNab05757(NLRP1 Antibody) at dilution of 1:1000

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