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20-1072: Polyclonal antibody to NLRP1/NALP1 (NAC-delta)

Clonality :	Polyclonal
Application :	IP,IHC,WB
Reactivity :	Human
Gene :	NLRP1
Gene ID :	22861
Uniprot ID :	Q9C000
Format :	Sera
Alternative Name :	NLRP1,CARD7,DEFCAP,KIAA0926,NAC,NALP1
Isotype :	Rabbit IgG
Immunogen Information :	A synthetic peptide of human NLRP1/NALP1/NAC/CARD7 (amino acids 161-180 PSSPDHESPSQESPNAPTST) was used as immunogen for this antibody

Description

This antibody detects NLRP1; human NLRP1 is a 1473 amino acid protein. NLRP1, a member of NALP CLR subfamily, has an N-terminal pyrin domain (PYD), followed by an NBD, LRR, and a C-terminal CARD domain. NLRP1 is a component of both the inflammasome and apoptosome, suggesting that NLRP1 has important roles in both inflammation and apoptosis. The N-terminal domain consists of transactivation, CARD, Pyrin or BIR domains, or in some cases is undefined. The CLR family, also known as the NOD family, has its ancient roots in the plant kingdom and is related to the disease resistance (R) gene family that mediates plant immune responses.However, multiple splice variants encoding distinct NLRP1 isoforms with varying amino acid lengths have been described and thus the molecular weight detected may vary depending on the isoform(s) expressed.

Product Info

Amount :	50 µl
Content :	50 µl sera
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

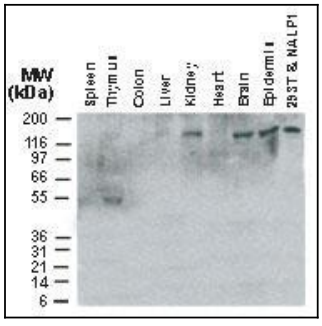

Fig:1 Western blot analysis of NLRP1 in adult human tissue lysates using NLRP1 antibody at 1:2000. Full-length NLRP1 protein was detected at highest levels in kidney, brain and epidermis. A smaller band was detected in thymus, possibly representing a NLRP1 breakdown product or alternatively spliced form. 293T/NALP1: positive control, 293T cells transiently transfected with full-length NLRP1.

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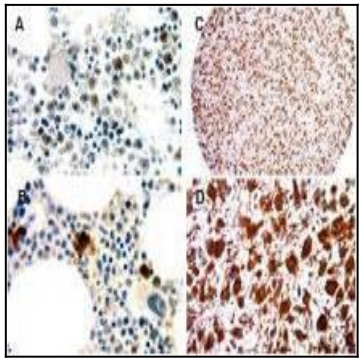

Fig:2 Formalin-fixed, paraffin-embedded human tissue sections probed with NALP1 antibody at 1:2000. A, bone marrow. B, brain glioma core from a brain cancer microarray. A1 and B1 are higher magnifications of A and B, respectively. Hemaxotylin-eosin counterstain.

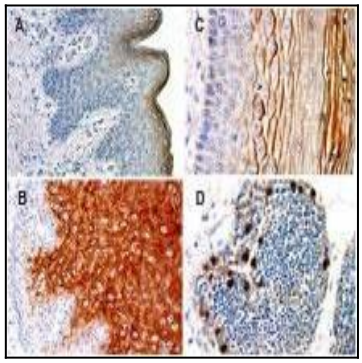

Fig:3 Formalin-fixed, paraffin-embedded normal human tissue sections probed using NLRP1 antibody at 1:2000. A, epidermis. B, esophagus. C, uterine cervix. D, thymus. Hematoxylin-eosin counterstain. In A-C, NLRP1 expression is associated with differentiation in stratified epithelial of the skin, esophagus, and cervix.