For Research Use Only

CARD6 Polyclonal antibody

Catalog Number:18029-1-AP 2 Publications

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Basic Information

Catalog Number:
18029-1-AP

Size:
150ul , Concentration: 200 ug/ml by Nanodrop and 180 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12595

GenBank Accession Number:
BC093825

GeneID (NCBI):
84674

UNIPROT ID:
Q9BX69

Full Name:
caspase recruitment domain family, member 6

Calculated MW:
1037 aa, 116 kDa

Observed MW:
130 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:20-1:200

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
rat, monkey

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells,

IHC : human testis tissue, human kidney tissue, human lung tissue, human spleen tissue

Background Information

The caspase recruitment domain (CARD) is a homotypic protein-protein interaction module that links components of signal transduction pathways implicated in the regulation of apoptosis or adaptive or innate immunity. Although much progress has been made in assigning precise roles to most CARD-containing proteins, the functions of the 1,037-amino-acid (aa) human and 1,175-aa mouse CARD6 proteins are still unknown. CARD6 has a unique structure in that it contains the CARD at the N terminus, a glutamic acid-rich region following the CARD, and a proline-rich region at the C terminus. CARD6 also harbors a 350-aa region with similarity to upregulated gene 4 (URG4), a protein that is induced in response to hepatitis Bx antigen overexpression and exerts a positive effect on proliferation. Both CARD6 and URG4 share structural features with members of the multifaceted, IFN-inducible GTPase (IFNiGTPase) superfamily, which contains some of the proteins most abundantly induced during cell-autonomous immune responses. The calcualted molecular weight of CARD is 116 kDa, but modified CARD6 is about 130 kDa. (PMID: 18160713)

Notable Publications

Author	Pubmed ID	Journal	Application
Yong Zhang	34734480	J Cell Mol Med	WB
Fu-Yu Deng	39973136	Zool Res	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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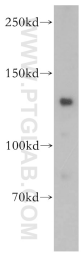
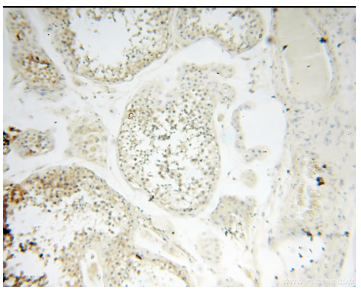
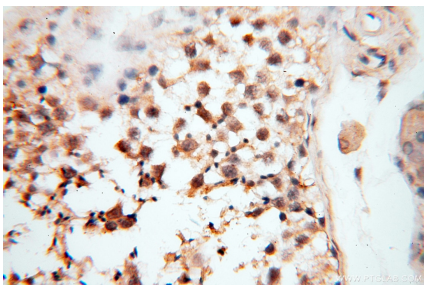
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 18029-1-AP (CARD6 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis using 18029-1-AP (CARD6 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 18029-1-AP (CARD6 antibody) at dilution of 1:100 (under 40x lens).