

For Research Use Only

CARD6 Polyclonal antibody

Catalog Number: 18029-1-AP **1 Publications**



Basic Information

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| Catalog Number: 18029-1-AP | GenBank Accession Number: BC093825 | Purification Method: Antigen affinity purification |
| Size: 200 µg/ml | GeneID (NCBI): 84674 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 |
| Source: Rabbit | UNIPROT ID: Q9BX69 | |
| Isotype: IgG | Full Name: caspase recruitment domain family, member 6 | |
| Immunogen Catalog Number: AG12595 | Calculated MW: 1037 aa, 116 kDa | |
| | Observed MW: 130 kDa | |

Applications

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| Tested Applications: IHC, WB, ELISA | Positive Controls: WB : HepG2 cells, IHC : human testis tissue, human kidney tissue, human lung tissue, human spleen tissue |
| Cited Applications: WB | |
| Species Specificity: human | |
| Cited Species: rat | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

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 (IFN-GTPase) superfamily, which contains some of the proteins most abundantly induced during cell-autonomous immune responses. The calculated 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 |

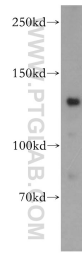
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

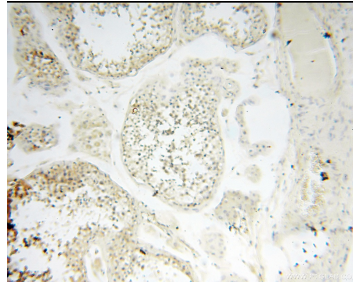
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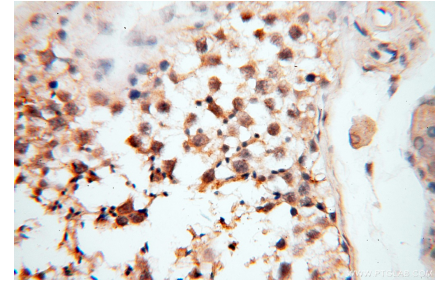
Selected Validation Data



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).