

Hsc70 Monoclonal ANTIBODY

Catalog Number: 66442-1-Ig

Basic Information

Catalog Number: 66442-1-Ig	GenBank Accession Number: BC007276	Recommended Dilutions: WB 1:3000-1:20000 IHC 1:50-1:500
Size: 150 µg/150 µl	GeneID (NCBI): 3312	
Source: Mouse	Full Name: heat shock 70kDa protein 8	
Isotype: IgG1	Calculated MW: 70 kDa	
Purification Method: Protein G purification	Observed MW: 70 kDa	
Immunogen Catalog Number: AG17910		

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HeLa cells; Recombinant protein protein
Species Specificity: human, mouse, rat	IHC : human ovary tumor tissue;
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

HSPA8 (also known as HSC70) is a member of the HSPA (HSP70) family of heat-shock proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. HSPA8 is a constitutively expressed cytosol/nuclear protein able to translocate between cytoplasm and nucleus. Recently it has been reported that HSPA8 can interact with α -synuclein, the critical pathological protein of Parkinson's disease, indicating its implication in neurodegenerative disease. (21832061)

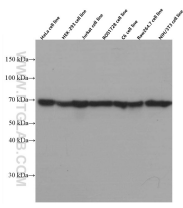
Notable Publications

Author	Pubmed ID	Journal	Application
--------	-----------	---------	-------------

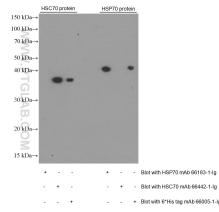
Storage

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

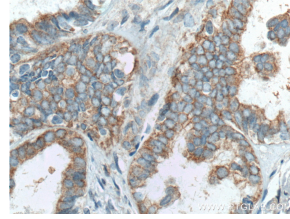
Selected Validation Data



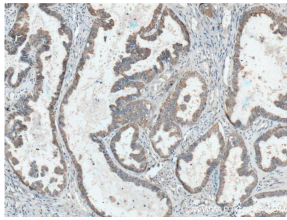
Western blot analysis of Hsc70 in various cell lines using 66442-1-g (Hsc70 Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours



6*His tagged-recombinant HSP70 (291-641 aa) and HSC70 (346-646 aa) proteins were subjected to SDS PAGE followed by western blot with 66183-1-g (HSP70 antibody), 66442-1-g (HSC70 antibody), and 66005-1-g (His antibody), respectively, at dilution of 1:50000, incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66442-1-g (Hsc70 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66442-1-g (Hsc70 Antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).