

For Research Use Only

CHOP/GADD153 Monoclonal antibody

Catalog Number: 66741-1-Ig 43 Publications



Basic Information

Catalog Number: 66741-1-Ig	GenBank Accession Number: BC003637	Purification Method: Protein A purification
Size: 150ul , Concentration: 3400 ug/ml by 1649 Nanodrop and 1500 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1649	CloneNo.: 4F3G1
Source: Mouse	UNIPROT ID: P35638	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:250-1:1000
Isotype: IgG2a	Full Name: DNA-damage-inducible transcript 3	
Immunogen Catalog Number: AG7354	Calculated MW: 19 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : HSC-T6 cells, HepG2 cells, C6 cells, NIH/3T3 cells, Tunicamycin treated HepG2 cells
Species Specificity: human, mouse, rat	IHC : human cervical cancer tissue, human skin cancer tissue
Cited Species: human, mouse, rat, pig, rabbit, shrew	
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

CHOP, also known as GADD153 or DDIT3, is a highly conserved gene in both the structural and regulatory regions. Imposed by unfolded and misfolded proteins, CHOP is significantly induced by ER stress. CHOP is considered a proapoptotic marker of ER stress dependent cell death. CHOP acts as a dominant-negative inhibitor of the transcription factor C/EBP and LAP. It may play an important role in the malignant transformation of nevus to melanoma. The calculated molecular weight of CHOP is 19 kDa, but the protein migrates on an SDS-PAGE gel with an observed molecular mass of 29 kDa (PMID: 1547942).

Notable Publications

Author	Pubmed ID	Journal	Application
Qi Xu	36341965	Environ Toxicol Pharmacol	WB
Yujie Zhong	36501024	Nutrients	WB
Xiao Zheng	34748795	Dev Comp Immunol	WB

Storage

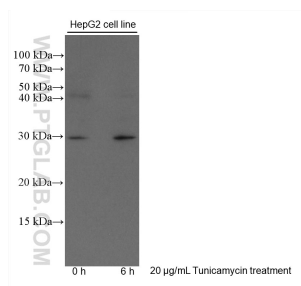
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

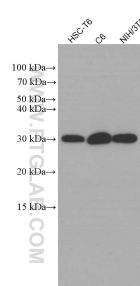
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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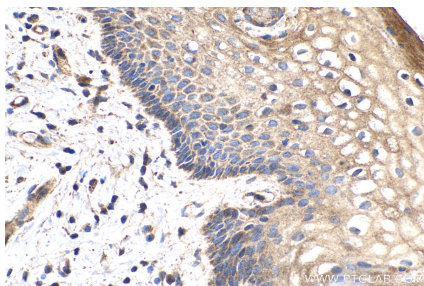
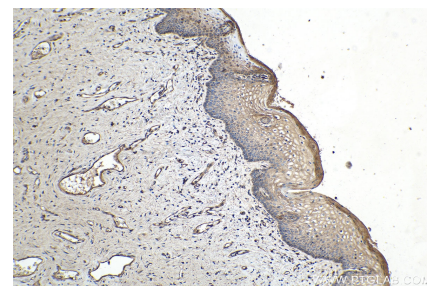
Selected Validation Data



Un-treated and Tunicamycin treated HepG2 lysates were subjected to SDS PAGE followed by western blot with 66741-1-Ig (CHOP; GADD153 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66741-1-Ig (CHOP; GADD153 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66741-1-Ig (CHOP; GADD153 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).