

For Research Use Only

CHOP; GADD153 Recombinant antibody

Catalog Number: 81462-1-RR



Basic Information

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| Catalog Number: 81462-1-RR | GenBank Accession Number: BC003637 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 1649 | CloneNo.: 1G11 |
| Source: Rabbit | UNIPROT ID: P35638 | Recommended Dilutions: WB 1:2000-1:10000 |
| Isotype: IgG | Full Name: DNA-damage-inducible transcript 3 | |
| Immunogen Catalog Number: AG7354 | Calculated MW: 19 kDa | |
| | Observed MW: 30 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : Tunicamycin treated HeLa cells, Tunicamycin treated Jurkat cells |
| Species Specificity: Human | |

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).

Storage

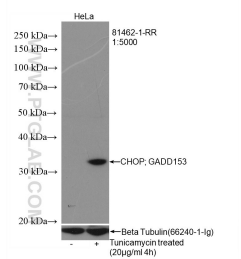
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

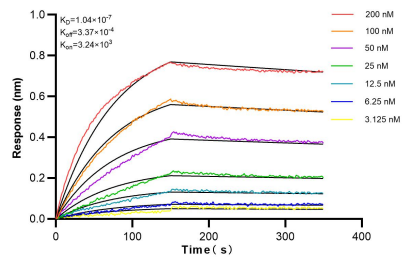
For technical support and original validation data for this product please contact:
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Selected Validation Data



Untreated and tunicamycin treated HeLa cells were subjected to SDS PAGE followed by western blot with 81462-1-RR (CHOP; GADD153 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 81462-1-RR against Human CHOP/GADD153 were performed. The affinity constant is 104 nM.