

DDIT3 Rabbit mAb

Catalog No: #52106

Package Size: #52106-1 50ul #52106-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

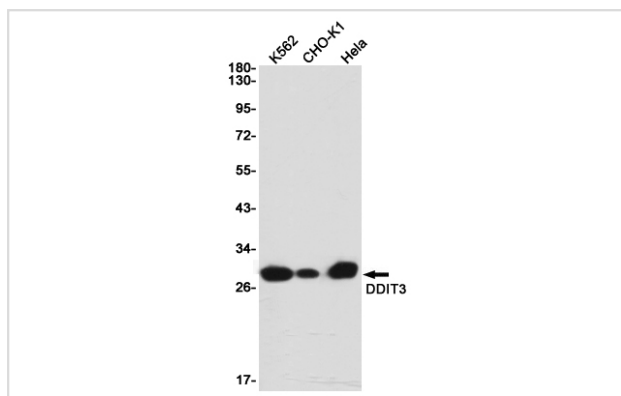
Description

Product Name	DDIT3 Rabbit mAb
Clone No.	S02-6A3
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human DDIT3
Conjugates	Unconjugated
Modification	Unmodification
Other Names	CHOP; CEBPZ; CHOP10; CHOP-10; GADD153
Accession No.	Swiss-Prot:P35638GeneID:1649
Calculated MW	Calculated MW: 19 kDa; Observed MW: 27 kDa
Formulation	50nM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

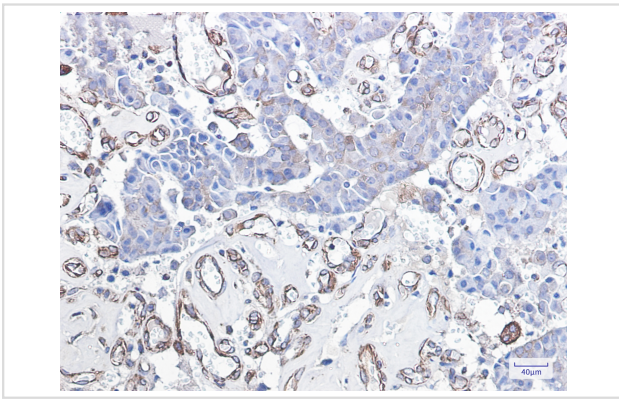
Application Details

WB: 1/1000-1/2000; IHC: 1/20-1/50

Images



Western blot detection of DDIT3 in K562, CHO-K1, HeLa cell lysates using DDIT3 Rabbit mAb(1:1000 diluted). Predicted band size: 19KDa. Observed band size: 27KDa.



Immunohistochemistry of DDIT3 in paraffin-embedded Human breast cancer tissue using DDIT3 Rabbit mAb at dilution 1/1

Background

Swiss-Prot Acc.P35638.Multifunctional transcription factor in ER stress response. Plays an essential role in the response to a wide variety of cell stresses and induces cell cycle arrest and apoptosis in response to ER stress. Plays a dual role both as an inhibitor of CCAAT/enhancer-binding protein (C/EBP) function and as an activator of other genes. Acts as a dominant-negative regulator of C/EBP-induced transcription: dimerizes with members of the C/EBP family, impairs their association with C/EBP binding sites in the promoter regions, and inhibits the expression of C/EBP regulated genes. Positively regulates the transcription of TRIB3, IL6, IL8, IL23, TNFRSF10B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ERO1L. Negatively regulates; expression of BCL2 and MYOD1, ATF4-dependent transcriptional activation of asparagine synthetase (ASNS), CEBPA-dependent transcriptional activation of hepcidin (HAMP) and CEBPB-mediated expression of peroxisome proliferator-activated receptor gamma (PPARG). Inhibits the canonical Wnt signaling pathway by binding to TCF7L2/TCF4, impairing its DNA-binding properties and repressing its transcriptional activity. Plays a regulatory role in the inflammatory response through the induction of caspase-11 (CASP4/CASP11) which induces the activation of caspase-1 (CASP1) and both these caspases increase the activation of pro-IL1B to mature IL1B which is involved in the inflammatory response.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.