

Product Name: KD-Validated DNA Damage Inducible Transcript 3 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01406

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 19.2kDa

Antigen Information

Gene Name	DDIT3 DDIT3; DNA Damage Inducible Transcript 3; GADD153; CHOP10; CHOP; C/EBP Zeta; Growth Arrest And DNA Damage-Inducible Protein GADD153; CCAAT/Enhancer-Binding Protein Homologous Protein; DNA Damage-Inducible Transcript 3 Protein; C/EBP-Homologous Protein 10; Alternative DDIT3 Protein; AltDDIT3; CHOP-10; Growth Arrest And DNA-Damage-Inducible Gene; DDIT3 Upstream Open Reading Frame Protein; DNA-Damage-Inducible Transcript 3; C/EBP Homologous Protein; C/EBP-Homologous Protein; C/EBPzeta; DDIT-3; CEBPZ
Alternative Names	
Gene ID	1649.0
SwissProt ID	P35638

Immunogen

A synthesized peptide derived from human DDIT3

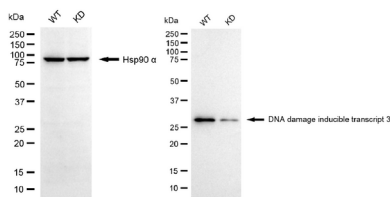
Background

This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified. [provided by RefSeq, Aug 2010]

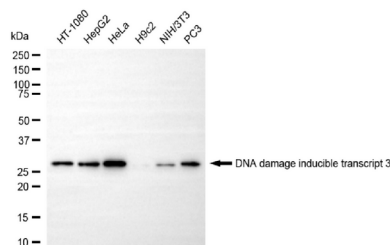
Research Area

Epigenetics and Nuclear Signaling, Stem Cells, Developmental Biology, Metabolism

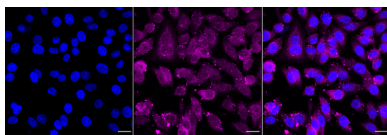
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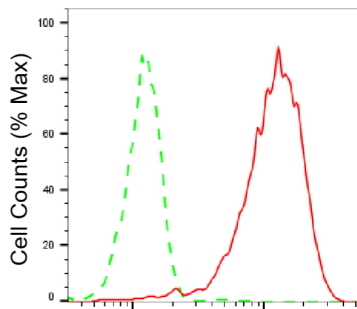
Western blotting analysis using DNA damage inducible transcript 3 antibody (KVA01406). DNA damage inducible transcript 3 expression in wild-type (WT) and DNA damage inducible transcript 3 (DDIT3) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with DNA damage inducible transcript 3 antibody (KVA01406, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using DNA damage inducible transcript 3 antibody (KVA01406). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DNA damage inducible transcript 3 antibody (KVA01406, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with DNA damage inducible transcript 3 antibody (KVA01406, 1:1,000). Nuclei were stained blue with DAPI; DNA damage inducible transcript 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



DNA damage inducible transcript 3-
Alexa Fluor® 647

Flow cytometric analysis of DNA damage inducible transcript 3 expression in HepG2 cells using DNA damage inducible transcript 3c antibody (KVA01406, 1:2,000). Green, isotype control; red, DNA damage inducible transcript 3.