

## Basic Information

<b>Product Name</b>	Anti-GADD153/DDIT3 Antibody (Clone#AOHF-4)
<b>Gene Name</b>	DDIT3
<b>Source</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human, mouse, rat
<b>Tested Application</b>	WB, IHC, FCM
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	A synthesized peptide derived from human DDIT3
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Affinity-chromatography
<b>Observed MW</b>	29 kDa
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 Flow Cytometry (FCM): 1:20

## Storage

12 months from date of receipt, -20°C as supplied.

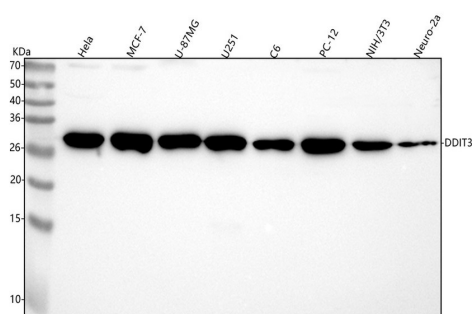
## Background Information

DNA damage-inducible transcript 3, also known as C/EBP homologous protein (CHOP), is a pro-apoptotic transcription factor that is encoded by the DDIT3 gene. It is mapped to 12q13.3. 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.

## Reference

Anti-GADD153/DDIT3 Antibody (Clone#AOHF-4)被引用在6文献中。

## Selected Validation Data



Western blot analysis of anti-GADD153/DDIT3 antibody (BM4962).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human MCF-7 whole cell lysates,

Lane 3: human U-87MG whole cell lysates,

Lane 4: human U251 whole cell lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: rat PC-12 whole cell lysates,

Lane 7: mouse NIH/3T3 whole cell lysates,

Lane 8: mouse Neuro-2a whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-GADD153/DDIT3 antigen affinity purified monoclonal antibody (BM4962) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GADD153/DDIT3 at approximately 29 kDa. The expected band size for GADD153/DDIT3 is at 19 kDa.