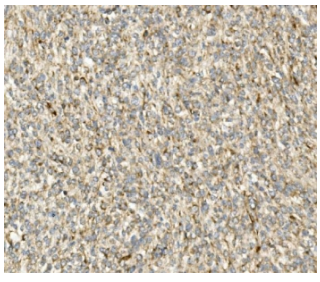
CHOP Antibody / DDIT3 / GADD153 (RQ5969)

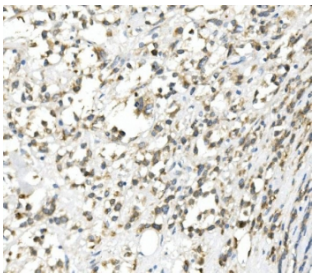
Catalog No.	Formulation	Size
RQ5969	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

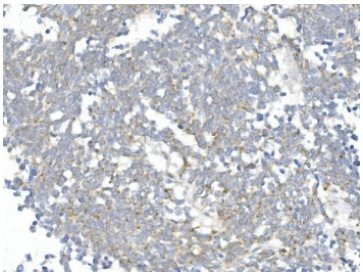
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P35638
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This CHOP antibody is available for research use only.



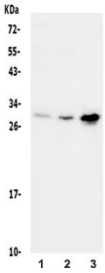
IHC staining of FFPE human renal cancer with CHOP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



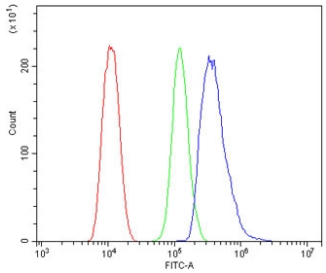
IHC staining of FFPE human B lymphocytic tumor tissue with CHOP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



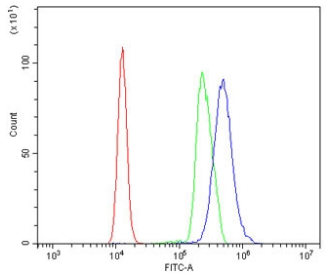
IHC staining of FFPE human lung cancer with CHOP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) U-87 MG, 2) K562 and 3) ThP-1 lysate with CHOP antibody. Expected molecular weight: 19-29 kDa.



Flow cytometry testing of human ThP-1 cells with CHOP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDIT3 antibody.



Flow cytometry testing of human K562 cells with CHOP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDIT3 antibody.

Description

DNA damage-inducible transcript 3, also known as C/EBP homologous protein (CHOP), is a pro-apoptotictranscription 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.

Application Notes

Optimal dilution of the CHOP antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-A169) was used as the immunogen for the CHOP antibody.

Storage

After reconstitution, the CHOP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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