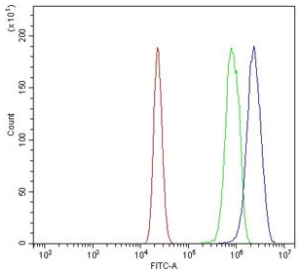
# Ddit3 Antibody / Chop / Gadd153 (RQ6468)

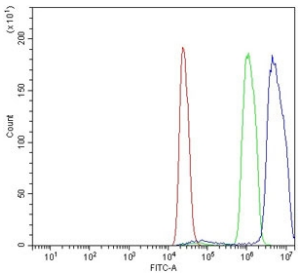
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6468 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

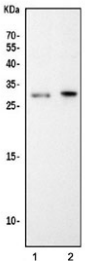
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P35639 |
| **Applications** | Western Blot : 1-2ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This Ddit3 antibody is available for research use only. |




Flow cytometry testing of mouse RAW264.7 cells with Ddit3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ddit3 antibody.




Flow cytometry testing of rat C6 cells with Ddit3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ddit3 antibody.




Western blot testing of 1) mouse RAW264.7 and 2) rat C6 cell lysate with Ddit3 antibody. Expected molecular weight: 19-29 kDa.

## Description

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.

## Application Notes

Optimal dilution of the Ddit3 antibody should be determined by the researcher.

## Immunogen

An E. coli-derived mouse protein (amino acids E17-A168) was used as the immunogen for the Ddit3 antibody.

## Storage

After reconstitution, the Ddit3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com