Ablumir
Built Around Immunology

# Anti-CHOP Rabbit mAb [01E79]

**Catalog No.: A52076**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A52076 |
| Host species | Rabbit |
| Reactivity | Human,Mouse,Rat |
| Applications | WB,IHC,IF,ELISA |
| Synonyms | CHOP,C/EBP-homologous protein,GADD153 |

## Product Information

| | |
|---|---|
| Target | CHOP |
| Molecular Weight(Calculated) | 19 kDa |
| Molecular Weight(Observed) | 30 kDa |
| Isotype | IgG,Kappa |
| Conjugation | NA |
| Concentration | 0.2 mg/ml |
| Clonality | Monoclonal |
| Clone No. | 01E79 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

Ablumir
Built Around Immunology

## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:1000-1:5000 |
| IHC | 1:100-1:400 |
| IF | 1:200-1:1000 |
| ELISA | 1:5000-1:20000 |

## Target Information

| | |
|---|---|
| Protein Name | CCAAT/enhancer-binding protein homologous protein |
| Gene Name | *DDIT3* |
| Domain | NA |
| Background | CHOP (C/EBP-homologous protein, DDIT3) belongs to C/EBP transcription-factor family and governs endoplasmic-reticulum-stress-dependent apoptosis. Under physiological conditions, CHOP remains barely detectable. Upon ER stress, PERK-eIF2α pathway strongly up-regulates CHOP transcription. As a transcription factor, CHOP remodels downstream gene expression, represses anti-apoptotic Bcl-2 and activates pro-apoptotic programs to trigger ER-stress-induced cell death. Sustained ER stress causes massive CHOP accumulation and cell injury, contributing to metabolic disorders, neurodegeneration and tumor drug resistance. |