# CHOP Polyclonal Antibody

E90221

**Catalog Number:** E90221
**Amount:** 100ul
**Background:** CHOP was identified as a C/EBP-homologous protein that inhibits C/EBP and LAP in a dominant-negative manner (1). CHOP expression is induced by certain cellular stresses including starvation and the induced CHOP suppresses cell cycle progression from G1 to S phase (2). Later it was shown that, during ER stress, the level of CHOP expression is elevated and CHOP functions to mediate programmed cell death (3). Studies also found that CHOP mediates the activation of GADD34 and Ero1-Lα expression during ER stress. GADD34 in turn dephosphorylates phospho-Ser51 of eIF2α thereby stimulating protein synthesis. Ero1-Lα promotes oxidative stress inside the endoplasmic reticulum (ER) (4). The role of CHOP in the programmed cell death of ER-stressed cells is correlated with its role promoting protein synthesis and oxidative stress inside the ER (4).
**Species:** Rabbit
**Isotype:** IgG
**Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
**Synonyms:** DDIT3;CEBPZ; CHOP; CHOP10; GADD153; MGC4154;
**Immunogen:** Recombinant proteinof human CHOP
**Purification:** Affinity purification
**Reactivity:** H M R
**Applications:** WB IHC
**Molecular Weight:** 19kDa
**Swiss-Prot No. :** P35638
**Gene ID:** 1649
**References:** 1. Ron, D. and Habener, J.F. (1992) Genes Dev 6, 439-53. 2. Barone, M.V. et al. (1994) Genes Dev 8, 453-64. 3. Zinszner, H. et al. (1998) Genes Dev 12, 982-95. 4. Marciniak, S.J. et al. (2004) Genes Dev 18, 3066-77.

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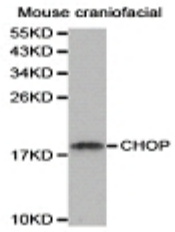
WB 1:500 - 1:2000

IHC 1:50- 1:200




Western blot analysis of extracts from mousecraniofacial tissue , using CHOP antibody.

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