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Product datasheet for AP06131PU-M

DDIT3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunofluorescence**: 1/50-1/200. **Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 100-150 of Human CHOP.
Specificity:	This antibody detects endogenous levels of GADD153/DDIT3 protein. (region surrounding Lys121)
Formulation:	Phosphate Buffered Saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~26 kDa
Gene Name:	DNA damage inducible transcript 3
Database Link:	Entrez Gene 1649 Human P35638

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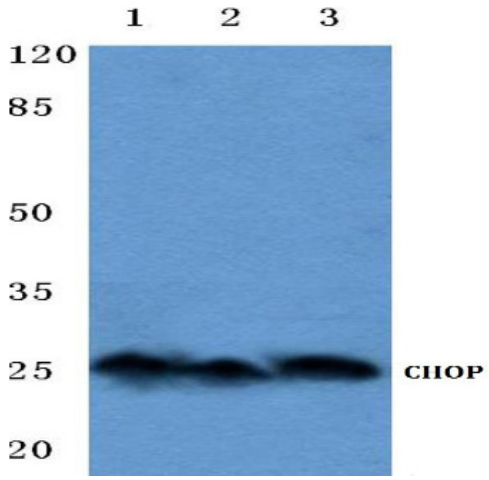
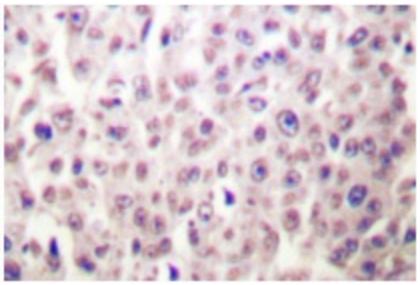
Background: GADD153 has been described as a growth arrest and DNA damageinducible gene that encodes a C/EBP-related nuclear protein. This protein has also been designated C/EBP-homologous protein (CHOP-10). GADD 153 expression is induced by a variety of cellular stresses, inducing nutrient deprivation and metabolic perturbations. GADD153 functions to block cells in G1 to S phase in cell cycle progression and acts by dimerizing with other C/EBP proteins to direct GADD153 dimers away from 'classical' C/EBP binding sites, recognizing instead unique 'nonclassical' sites. Thus GADD153 acts as a negative modulator of C/EBP-like proteins in certain terminally differentiated cells, similar to the regulatory function of Id on the activity of Myo D and Myo D-related proteins involved in the development of muscle cells.

Synonyms: DDIT3, DDIT-3, CHOP10, CHOP-10

Product images:



Western blot analysis of GADD153 / CHOP Antibody at 1/500 dilution: Lane 1: HEK293T cell lysate. Lane 2: Raw264.7 cell lysate. Lane 3: Rat Liver tissue lysate.



Immunohistochemistry (IHC) analysis of GADD153 / CHOP Antibody in paraffin-embedded human breast carcinoma tissue.