

# CDIP Antibody

Catalog # ASC10855

## Product Information

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| <b>Application</b>           | WB, IF, E, IHC-P                                                                                                                                                                                                   |
| <b>Primary Accession</b>     | <a href="#">Q9H305</a>                                                                                                                                                                                             |
| <b>Other Accession</b>       | <a href="#">NP_037531</a> , <a href="#">118344450</a>                                                                                                                                                              |
| <b>Reactivity</b>            | Human, Mouse                                                                                                                                                                                                       |
| <b>Host</b>                  | Rabbit                                                                                                                                                                                                             |
| <b>Clonality</b>             | Polyclonal                                                                                                                                                                                                         |
| <b>Isotype</b>               | IgG                                                                                                                                                                                                                |
| <b>Calculated MW</b>         | 21892                                                                                                                                                                                                              |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                                                                                                            |
| <b>Conjugate</b>             | Unconjugated                                                                                                                                                                                                       |
| <b>Application Notes</b>     | CDIP antibody can be used for detection of CDIP by Western blot at 1 - 2 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 29965                                                                                                                                                                                                                                                 |
| <b>Other Names</b>                  | Cell death-inducing p53-target protein 1, Cell death involved p53-target, Cell death-inducing protein, LITAF-like protein, Lipopolysaccharide-induced tumor necrosis factor-alpha-like protein, Transmembrane protein I1, CDIP1, C16orf5, CDIP, LITAF |
| <b>Target/Specificity</b>           | C16orf5;                                                                                                                                                                                                                                              |
| <b>Reconstitution &amp; Storage</b> | CDIP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.          |
| <b>Precautions</b>                  | CDIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                                       |

## Protein Information

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| <b>Name</b>              | CDIP1                                                                                                                                   |
| <b>Synonyms</b>          | C16orf5, CDIP, LITAF                                                                                                                    |
| <b>Function</b>          | Acts as an important p53/TP53-apoptotic effector. Regulates TNF-mediated apoptosis in a p53/TP53-dependent manner.                      |
| <b>Cellular Location</b> | Late endosome membrane; Peripheral membrane protein; Cytoplasmic side. Lysosome membrane; Peripheral membrane protein; Cytoplasmic side |

## Tissue Location

Highly expressed in brain. Expressed at lower level in heart, skeletal muscle, kidney, pancreas and liver. Weakly or not expressed in placenta and lung.

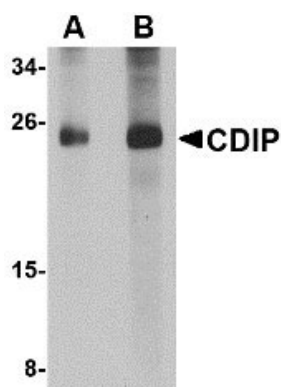
## Background

**CDIP Antibody:** The p53 tumor-suppressor gene integrates numerous signals that control cell life and death; loss of its functions contributes to the development of most cancers. CDIP is a novel pro-apoptotic target gene whose inhibition abrogates p53-mediated apoptotic responses. Overexpression of CDIP induced apoptosis in transfected cells while siRNA suppression of caspase-8 mRNA blocked this CDIP-induced apoptosis, indicating that the CDIP-dependent apoptosis pathway proceeds through extrinsic cell death pathway. CDIP may thus represent a novel target for drug design to maximize p53 response and sensitize tumor cells to cancer therapy. Multiple isoforms of CDIP are known to exist.

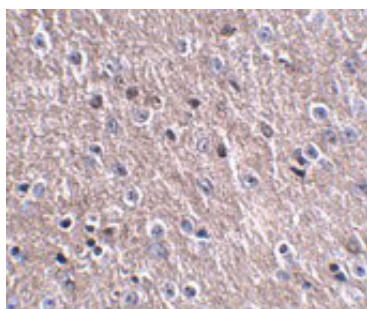
## References

Guimaraes DP and Hainaut P. TP53: a key gene in human cancer. *Biochimie* 2002; 84:83-93.  
Brown L, Ongusaha PP, Kim H-H, et al. CDIP, a novel pro-apoptotic gene, regulates TNFa-mediated apoptosis in a p53-dependent manner. *EMBO J.* 2007; 26:3410-22.

## Images

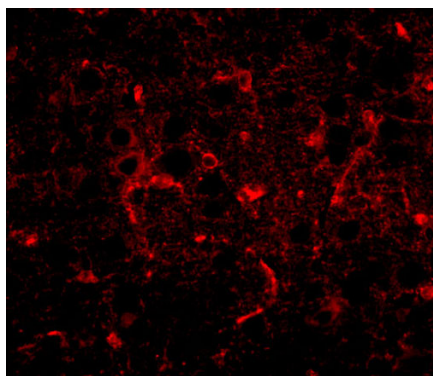


Western blot analysis of CDIP in human brain lysate with CDIP antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunohistochemistry of FNIP2 in mouse brain tissue with FNIP2 antibody at 2.5  $\mu$ g/mL.

Immunofluorescence of CDIP1 in mouse brain tissue with CDIP1 antibody at 20  $\mu$ g/mL.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.