

## Product datasheet for **TA349880**

### DDIT4L Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | IHC   |
| Recommended Dilution: | IHC: 25-100<br>Positive control: Human thyroid cancer<br>Predicted cell location: Cytoplasm   |
| Reactivity:           | Human, Mouse, Rat   |
| Host:                 | Rabbit  |
| Isotype:              | IgG   |
| Clonality:            | Polyclonal  |
| Immunogen:            | Fusion protein of human DDIT4L  |
| Formulation:          | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol  |
| Concentration:        | lot specific  |
| Purification:         | Antigen affinity purification   |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | DNA damage inducible transcript 4 like  |
| Database Link:        | <a href="#">NP_660287</a><br><a href="#">Entrez Gene 73284 Mouse</a> <a href="#">Entrez Gene 100363484 Rat</a> <a href="#">Entrez Gene 115265 Human</a><br><a href="#">Q96D03</a> |



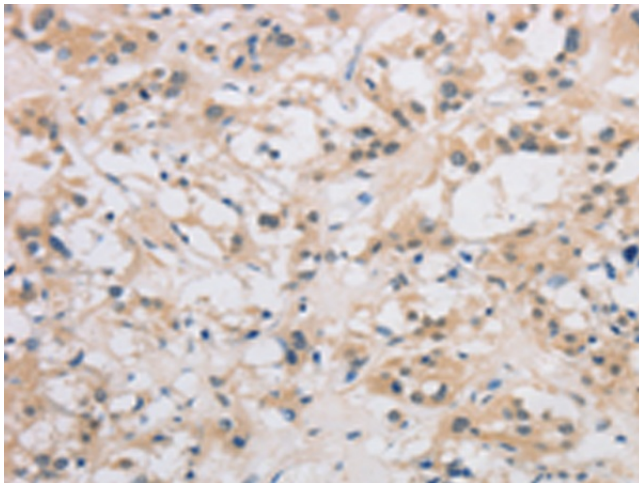
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**Background:**

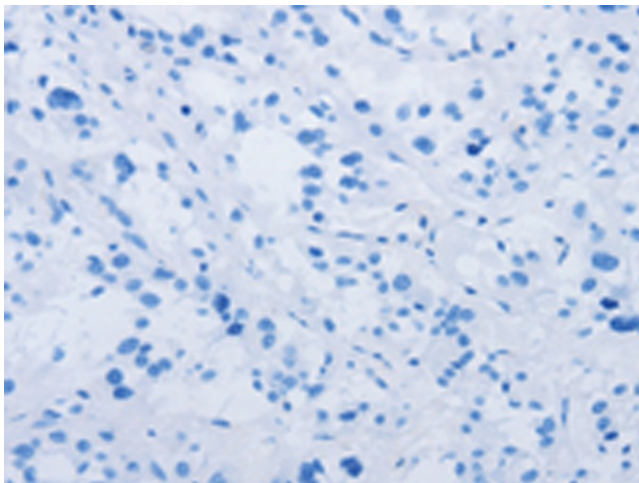
REDD-2 (regulated in development and DNA damage response 2), also designated Rtp801L or DDIT4L (DNA-damage-inducible transcript 4-like), is a 193 amino acid cytoplasmic protein belonging to the DDIT4 family and is predominantly expressed in skeletal muscle. Considered a stress-induced protein, REDD-2 is a negative regulator of the mTOR (mammalian target of rapamycin) pathway. mTOR is a serine/threonine kinase that plays an essential role in cell growth control and is an important regulator of skeletal muscle size. Highly expressed in human atherosclerotic lesions and macrophages, REDD-2 mediates monocyte cell death through reduction of Trx (thioredoxin-1) expression. REDD2 expression in macrophages increases oxidized LDL (oxLDL)-induced cell death, suggesting that REDD2 may play a critical role in arterial pathology.

**Synonyms:**

REDD2; Rtp801L

**Product images:**

Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA349880 (DDIT4L Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA349880 (DDIT4L Antibody) at dilution 1/40, treated with fusion protein. (Original magnification:  $\times 200$ )