

## Product datasheet for **TA336333**

### DIABLO Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | ICC/IF, IHC, WB   |
| Recommended Dilution: | Immunohistochemistry, Western Blot: 0.5-2 ug/ml, Immunocytochemistry/<br>Immunofluorescence: 1:10-1:500, Immunohistochemistry-Paraffin: 10 ug/ml  |
| Reactivity:           | Human   |
| Host:                 | Rabbit  |
| Clonality:            | Polyclonal  |
| Immunogen:            | This rabbit polyclonal antibody was developed against two synthetic peptides corresponding to amino acids 199 to 212 and amino acids 226 to 239 of human Smac (Genbank accession no. AAF87716). |
| Formulation:          | PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  |
| Concentration:        | lot specific  |
| Purification:         | Protein G purified  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | diablo IAP-binding mitochondrial protein  |
| Database Link:        | <a href="#">NP_620308</a><br><a href="#">Entrez Gene 56616 Human</a><br><a href="#">Q9NR28</a>  |



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**Background:**

Recently, three different laboratories have identified a molecule, Smac/DIABLO, which binds with inhibitor of apoptosis proteins (IAPs) and neutralizes IP inhibition of effector caspases. Multiple IAP molecules, including c-IAP1, c-IAP2, XIAP, and survivin are able to bind Smac. Smac/DIABLO is a mitochondrial protein, which is released into cytosol during apoptosis. The function of Smac is similar to that of *Drosophila* apoptosis activating proteins Reaper, Hid and Grim, which have been proposed to function by neutralizing the activity of IAPs. Smac promotes caspase-3 and caspase-9 activation by removing inhibitors rather than directly acting on Apaf-1, procaspases, and cytochrome c. The full-length cDNA of Smac encodes an open reading frame of 239 amino acids, predicting a protein with a molecular weight of 27 kDa. However, the mature protein purified from HeLa cells is only about 25 kDa.

**Synonyms:**

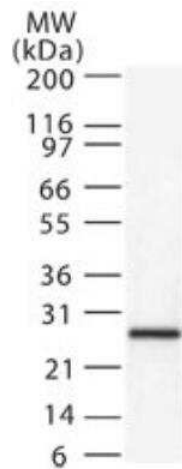
DFNA64; SMAC

**Note:**

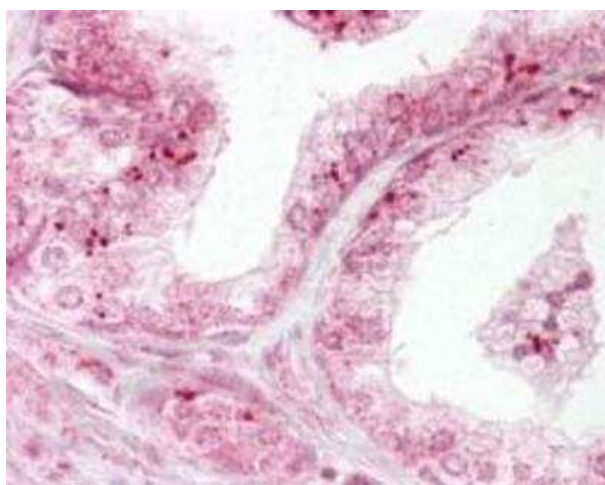
Immunocytochemistry/Immunofluorescence: See Hu et al (2004) for details.  
Immunohistochemistry-Paraffin: 10 ug/ml please see Ren et al. for details (2006).

**Protein Families:**

Transmembrane

**Product images:**

Western Blot: SMAC/Diablo Antibody TA336333 - Analysis of Smac (DIABLO) in HeLa lysate using Smac antibody at 2 ug/ml.



Immunohistochemistry: SMAC/Diablo Antibody TA336333 - Analysis of human prostate using Smac antibody at 10 ug/ml.