



## **Anti-TNF-related apoptosis inducing ligand (TRAIL), Chicken-Polyclonal Antibody**

**Catalog No.** PY-10027      **Quantity:** 100µg      **Applications tested:** Western blot  
**Antigen species:** Human      **Reactivity:** Human  
**Host species:** Chicken      **Form:** Antigen affinity purified antibody

### **Target description**

TRAIL is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3.

### **Antigen**

This polyclonal antibody was raised by immunizing chicken with TRAIL fusion protein (a.a.139-281).

### **Application**

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1:2,000, for tissue or cell staining is 1:200. Optimal working dilutions must be determined by the end user.

### **Related Products**

1. Anti-TEM1 pAb (GB-10374).
2. Anti-TEM2 pAb (GB-30131).
3. Anti-TEM3 pAb (GB-30132).
4. Anti-TEM4 pAb (GB-30133).
5. Anti-TEM5 pAb (GB-10011).



### **Western Blot Protocol:**

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 2,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1:1,000 for ECL (with 1% milk PBS-T) at R.T. for 1h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

### **Storage**

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

### **References**

Schmaltz, C.; Alpdogan, O.; Kappel, B. J.; Muriglan, S. J.; Rotolo, J. A.; et al. : T cells require TRAIL for optimal graft-versus-tumor activity. *Nature Med.* 8: 1433-1437, 2002..