
anti-TRAIL

Cat #: HM1383
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

APPLICATIONS

TRAIL (TNF related apoptosis induced ligand) or Apo 2L 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 DR4 or DR5. These receptors consist of an extracellular TRAIL binding domain and a cytoplasmic "death domain". In addition, two decoy receptors for TRAIL have also been identified. These receptors, designated DcR1 and DcR2, lack the death domain. Binding of TRAIL to either of these receptors, therefore, does not transmit the death signal. TRAIL is expressed predominantly in spleen, lung, and prostate but also in many other tissues.

SPECIFICITY

This antibody reacts with TRAIL of mouse, rat and human origin. It is non cross-reactive with other members of TNF family type II membrane proteins.

The antibody can be used in Western blotting and immunohistochemistry.

IMMUNOGEN

A synthetic peptide derived from C-terminus of human TRAIL protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Wiley,S.R.,Schooley,K., Smolak,P.J., Din,W.S., Huang,C.P., Nicholl,J.K., Sutherland,G.R.,Smith,T.D., Rauch,C., Smith,C.A. et al. (1995) Identification and characterization of a new member of the TNF family that induces apoptosis. *Immunity* 3, 673-682.
2. Pan,G., O'Rourke,K., Chinnaiyan,A.M., Gentz,R., Ebner,R., Ni,J. and Dixit,V.M. (1997) The receptor for the cytotoxic ligand TRAIL. *Science* 276, 111-113.
3. Muhlenbeck,F., Haas,E., Schwenzler,R., Schubert,G., Grell,M., Smith,C., Scheurich,P. and Wajant,H. (1998) TRAIL/Apo2L activates c-Jun NH2-terminal kinase (JNK) via caspase-dependent and caspase-independent pathways. *J. Biol. Chem.* 273, 33091-33098.
4. Kumar-Sinha,C., Varambally,S., Sreekumar,A. and Chinnaiyan,A.M. (2002) Molecular cross-talk between the TRAIL and interferon signaling pathways. *J. Biol. Chem.* 277, 575-585.
5. Fulda,S., Wick,W., Weller,M. and Debatin,K.M. (2002) Smac agonists sensitize for Apo2L/TRAIL- or anticancer drug-induced apoptosis and induce regression of malignant glioma in vivo. *Nat. Med.* 8, 808-815.
6. Secchiero,P., Melloni,E., Heikinheimo,M., Mannisto,S., Di Pietro,R., Iacone,A. and Zauli,G. (2004) TRAIL regulates normal erythroid maturation through an ERK-dependent pathway. *Blood* 103, 517-522.

PRODUCT FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT

Hypromatrix, Inc.
100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com