

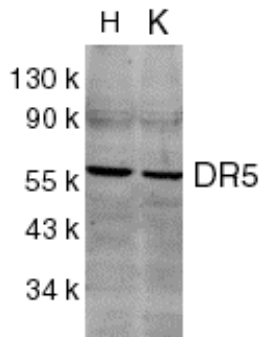
RABBIT ANTI-DR5 POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB16942	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
ALTERNATE NAMES:	Apo2, TRAIL-R2, TRICK2 or KILLER	EPITOPE:	amino acids 388-407 of human DR5 precursor
BACKGROUND:	Apoptosis is induced by certain cytokines including TNF and Fas ligand in the TNF family through their death domain containing receptors. TRAIL/Apo2L is a new member of the TNF family. DR4 was recently identified as the receptor for TRAIL. A novel death domain containing receptor for TRAIL was more recently identified and designated DR5, Apo2, TRAIL-R2, TRICK2 or KILLER by several groups independently (Pan et al. 1997; Sheridan et al. 1997; Walczak et al. 1997; MacFarlane et al. 1997; Screaton et al. 1997; Wu et al. 1997; Chaudhary et al. 1997). Like DR4, DR5 transcript is widely expressed in normal tissues and in many types of tumor cells. DR5 binds to TRAIL and mediates TRAIL induced cell death. Overexpression of DR5 induces apoptosis and activates NF-κB.		

SPECIFICITY: In extracts of human Jurkat and Hela cells, the antibody is specific for DR5 with no observable cross-reactivity to DR4.

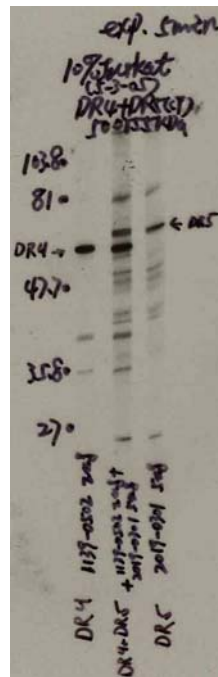
IMMUNOGEN: Polyclonal antibody raised against a peptide corresponding to amino acids 388-407 of human DR5 precursor (Pan et al. 1997; Sheridan et al. 1997).

APPLICATIONS: Western blot: 1:250 to 1:500
 Whole cell lysate from HeLa cells can be used as a positive control .



Western blot analysis of DR5 in HeLa (H) and K562 (K) whole cell lysates with anti-DR5 at 1:500 dilution.

Optimal working dilutions must be determined by end user.



Testing of AB16942 DR5 antibody on Jurkat extracts demonstrating no visible cross reactivity with DR4. 1:500 antibody dilution, 5 luminescent exposure.

- SPECIES REACTIVITY:** Reacts with Human and mouse. Reactivity with other species has not been determined
- PRESENTATION:** Affinity purified immunoglobulin presented as liquid in PBS containing 0.02% sodium azide.
- STORAGE/HANDLING:** Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.
- REFERENCES:**
- Reve, C. et al (2007) Caspase-8 prevents sustained activation of NF-kappaB in monocytes undergoing macrophilic differentiation. *Blood*, 109(4):1442-50.
- Buron, N. et al (2006). Differential Mechanisms of conjunctival cell death induction by ultraviolet irradiation and Benzalkonium Chloride. *Invest. Ophthal. Vis. Sci.* 47:4221-4230.
- Merino, D. et al. (2006) Differential Inhibition of TRAIL-mediated DR5-DISC formation by Decoy Receptors 1 and 2. *Molecular Cell. Biology* 26(19):7046-7055.
- Yamamoto, A. et al (2006). Evidence of tumor necrosis factor receptor 1 signaling in human temporal lobe epilepsy. *Exp. Neurology* 202(2):410-420.
- Futami, T. et al. (2005). Identification of a network involved in Thapsigargin-induced apoptosis using a library of small interfering RNA expression vectors. *J. Biol. Chem.* 280(1):826-831.
- Panner, A. et al (2005) mTOR controls FLIPs Translation and TRAIL sensitivity in glioblastoma multiforme cells. *Mol. Cell. Biol*, 25(20):8809-8823.
- Baurle, J et al (2004). TRAIL-related death receptors in normal, *Lurcher* and *weaver* mutant mouse brain. *Neurosci Letters*, 372(1-2):46-51.

RELATED

Pan, G. et al. (1997). *Science*. **277**:815-818.



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- Sheridan, J.P. et al. (1997). *Science*. **277**: 818-821.
Walczak, H. et al. (1997). *Embo J.* **16**:5386-97.
MacFarlane, M. et al. (1997). *J. Biol. Chem.* **272**:25417-20.
Screaton, G.R. et al. (1997). *Curr. Biol.* **7**:693-6.
Wu, G.S. et al. (1997). *Nat. Genet.* **17**:141-3.
Chaudhary, P.M. et al. (1997). *Immunity* **7**: 821-830.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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