

## Technical Data Sheet

## Purified Mouse Anti-Human CD253

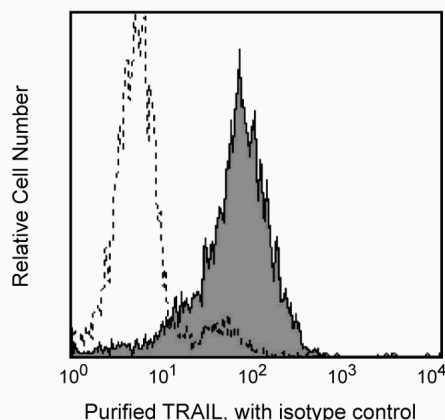
## Product Information

<b>Material Number:</b>	<b>550515</b>
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	RIK-2
<b>Immunogen:</b>	Human TRAIL
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human
<b>Storage Buffer:</b>	Aqueous buffered solution containing ≤0.09% sodium azide.

## Description

TRAIL (TNF-Related Apoptosis-Inducing Ligand), also known as Apo2L, is a member of the TNF ligand family. TRAIL is a type II membrane protein which may be expressed as a full-length, cell surface associated protein as well as in a soluble form. Both surface and soluble forms of TRAIL rapidly induce apoptosis on a wide range of cell lines. TRAIL has been shown to cause apoptotic death in either tumorigenic or transformed cells, but not in normal cells. TRAIL-mediated apoptosis has been shown to involve the activation of caspases, and is blocked by over-expression of the caspase-1 protease inhibitor, CrmA. TRAIL has also been reported to induce the transcription factor NF-κB in a cell type-specific manner. Two cognate TRAIL receptors DR4, and DR5, as well as two decoy receptors, DcR1/TRID and DcR2/TRUND have been identified. TRAIL has been shown to be involved in T cell cytotoxicity, but the exact physiological role TRAIL plays in T-cell mediated cytotoxicity remains to be elucidated.

The RIK-2 antibody recognizes human TRAIL. Human TRAIL cDNA was transferred to an expression vector and transfected into the 2PK-3 mouse B cell lymphoma cell line to generate stable transfectants, which were then used to immunize mice. The RIK-2 clone was selected based on its ability to block cytotoxic activity. TRAIL has been renamed as CD253 recently.



**Flow cytometric analysis of TRAIL.** Profile of human TRAIL/2PK-3 cell line analyzed on a FACScan™ (BDIS, San Jose, CA).

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Recommended Assay Procedure:

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**Immunofluorescent Staining and Flow Cytometry:** Applications include flow cytometry (0.25-1.0 µg/1x10<sup>6</sup> cells).

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**Blocking:** The RIK-2 antibody is useful to block TRAIL-induced apoptosis. The no azide/low endotoxin format (NA/LE), Cat. No. 550912, is recommended for in vitro blocking assays.

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

**References**

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Wiley SR, Schooley K, Smolak PJ, et al. Identification and characterization of a new member of the TNF family that induces apoptosis. *Immunity.* 1995; 3(6):673-682.(Biology)