

## Product datasheet

# Recombinant human DR5 protein ab109149

### Description

|                                   |   |
|-----------------------------------|---|
| <b>Product name</b>               | Recombinant human DR5 protein   |
| <b>Biological activity</b>        | Blocks Human or Mouse TRAIL activity in a concentration of 1-10µg/ml. Binds to Human and Mouse TRAIL. |
| <b>Purity</b>                     | > 95 % SDS-PAGE.  |
| <b>Endotoxin level</b>            | < 0.100 Eu/µg   |
| <b>Expression system</b>          | HEK 293 cells   |
| <b>Accession</b>                  | <b><u>O14763</u></b>  |
| <b>Protein length</b>             | Protein fragment  |
| <b>Animal free</b>                | No  |
| <b>Nature</b>                     | Recombinant   |
| <b>Species</b>                    | Human   |
| <b>Predicted molecular weight</b> | 50 kDa including tags   |
| <b>Amino acids</b>                | 52 to 212   |

### Specifications

Our **Abpromise guarantee** covers the use of **ab109149** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                         |   |
|-------------------------|---|
| <b>Applications</b>     | Functional Studies<br>SDS-PAGE  |
| <b>Form</b>             | Lyophilized   |
| <b>Additional notes</b> | After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions. |

### Preparation and Storage

|                              |  |
|------------------------------|--|
| <b>Stability and Storage</b> | Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C.<br>Constituent: PBS<br>This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| <b>Reconstitution</b>        | Reconstitute with 50µl sterile water to give a final concentration of 1mg/ml.  |

## General Info

---

|                               |  |
|-------------------------------|--|
| <b>Function</b>               | Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF-kappa-B. Essential for ER stress-induced apoptosis. |
| <b>Tissue specificity</b>     | Widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines such as HeLaS3, K-562, HL-60, SW480, A-549 and G-361; highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, placenta, testis, esophagus, stomach and throughout the intestinal tract; not detectable in brain.   |
| <b>Involvement in disease</b> | Squamous cell carcinoma of the head and neck   |
| <b>Sequence similarities</b>  | Contains 1 death domain.<br>Contains 3 TNFR-Cys repeats.   |
| <b>Cellular localization</b>  | Membrane.  |

---

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors