abcam

Product datasheet

Recombinant human DR5 protein (Fc Chimera) ab83547

3 图像

描述

产品名称	重组人DR5蛋白(Fc Chimera)
生物活性	The ED_{50} of DR5 Fc Chimera is typically 38-40 ng/ml as measured by its ability to neutralize TRAIL mediated cytotoxicity using the human leukemic Jurkat cells.
纯度	> 95 % SDS-PAGE.
表达系统	HEK 293 cells
Accession	O14763
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	Theoretical sequence: ITQQDLAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDC ISCKYGQDY STHWNDLLFCLRCTRCDSGEVELSPCTTTRNTVCQCEEG TFREEDSPE MCRKCRTGCPRGMVKVGDCTPWSDIECVHKEGSSNTKVD KKVEPKSCD KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV LHQDWLNGK EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRD ELTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSF FLYSKLTVD KSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK
氨基酸	56 to 182
额外的序列信息	Encodes the signal peptide and extracellular domain of human TRAIL R2 (aa 1-182) was fused to the Fc region of human IgG1 (aa 90-330). The chimeric protein was expressed in modified human 293 cells.

技术指标

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Our **Abpromise guarantee** covers the use of **ab83547** in the following tested applications.

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

应用	Functional Studies SDS-PAGE
形式	Lyophilized

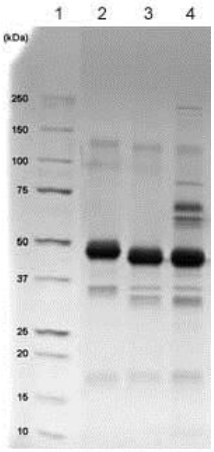
制备和贮存

稳定性和存储	Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. Constituents: 1% Human serum albumin, 10% Trehalose This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.

常规信息

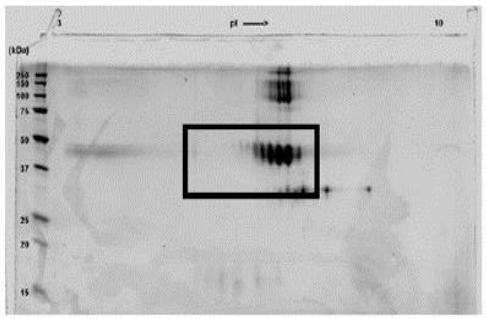
功能	Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF-kappa-B. Essential for ER stress-induced apoptosis.
组织特异性	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.
疾病相关	Squamous cell carcinoma of the head and neck
序列相似性	Contains 1 death domain. Contains 3 TNFR-Cys repeats.
细胞定位	Membrane.

图片



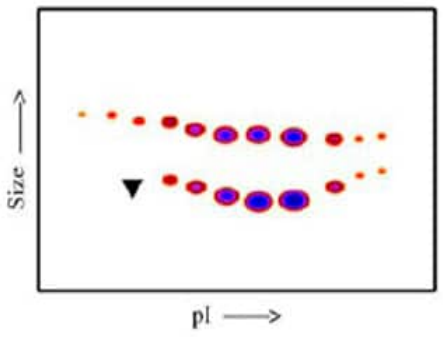
SDS-PAGE - Recombinant human DR5 protein (Fc Chimera) (ab83547)

Lane 1 – MW markers; Lane 2 – ab83547; Lane 3 – ab83547 treated with PNGase F to remove potential N-linked glycans; Lane 4 – ab83547 treated with a glycosidase cocktail to remove potential N- and O-linked glycans. Approximately 5 µg of protein was loaded per lane; Gel was stained using Coomassie.
Drop in MW after treatment with PNGase F indicates presence of N-linked glycans. A further drop in MW after treatment with the glycosidase cocktail indicates the presence of O-linked glycans. Additional bands in lane 3 and lane 4 are glycosidase enzymes.



SDS-PAGE - Recombinant human DR5 protein (Fc Chimera) (ab83547)

A sample of ab83547 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel. Approximately 40 µg of protein was loaded; Gel was stained using Deep Purple™. The spot train indicates the presence of multiple isoforms of ab83547. Spots within the spot train were cut from the gel and identified as ab83547 by protein mass fingerprinting.



Functional Studies - Recombinant human DR5 protein (Fc Chimera) (ab83547)

Post-translational modifications result in protein heterogeneity. The densitometry scan demonstrates that ab83547 exists in multiple isoforms, which differ according to their level of post-translational modification. Expression of these isoforms is highly significant for cell biology, as they more closely resemble the native human proteins.
The triangle indicates theoretical pI and MW of the protein.

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