

CD262 (DR5) Monoclonal Antibody (DJR2-4 (7-8)), eBioscience™

Product Details

| | |
|--------------------|-------------------------|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Class | Monoclonal |
| Type | Antibody |
| Clone | DJR2-4 (7-8) |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C |
| RRID | AB_468592 |

| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|----------------|
| Western Blot (WB) | - | 2 Publications |
| Immunocytochemistry (ICC/IF) | 5 µg/mL | 1 Publication |
| Flow Cytometry (Flow) | 1 µg/test | 8 Publications |
| Radioimmune Assays (RIA) | - | 1 Publication |

Product Specific Information

Description: The DJR2-4 monoclonal antibody reacts with human DR5, also known as TRAIL-R2, Apo2, TRICK2 and KILLER. DR5 binds to TRAIL, activates NF-kappaB, and induces TRAIL-mediated apoptosis. DR5 is expressed broadly by normal tissues as well as several tumor cells.

Applications Reported: The DJR2-4 (a.k.a. 7-8) antibody has been reported for use in flow cytometric analysis.

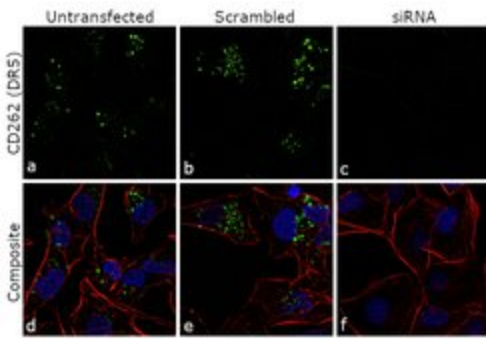
Applications Tested: The DJR2-4 (a.k.a. 7-8) antibody has been tested by flow cytometric analysis of human MOLT-4 cell line and human DR5-transfected cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

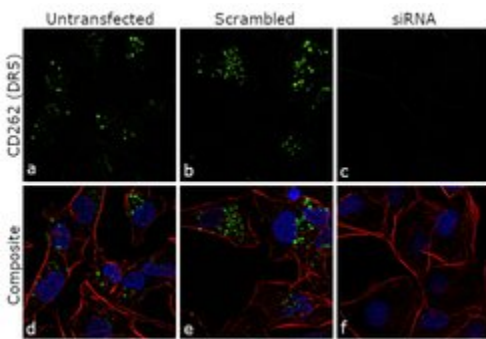
Advanced Verification Data



CD262 (DR5) Antibody (14-9908-82)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MDA-MB-231 cells were transfected with CD262 siRNA and reduction in signal was observed in Immunofluorescence using CD262 (DR5) Monoclonal Antibody (Product # 14-9908-82). Knockdown validation info.

Product Images For CD262 (DR5) Monoclonal Antibody (DJR2-4 (7-8)), eBioscience™

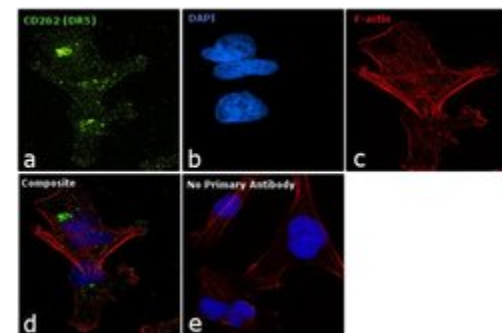


CD262 (DR5) Antibody (14-9908-82) in ICC/IF

Knockdown of CD262 (DR5) was achieved by transfecting MDA-MB-231 cells with CD262 (DR5) specific siRNA (Silencer® select Product # s16756). Immunofluorescence analysis was performed using untransfected MDA-MB-231 cells (panels a, d), transfected with non-specific scrambled siRNA (panels b,e) and transfected with CD262 (DR5) specific siRNAs (panel c,f). Cells were fixed, permeabilized, and probed with CD262 (DR5) Monoclonal Antibody (DJR2-4 (7-8)), eBioscience™ (Product # 14-9908-82, 5 µg/mL), followed by labelling with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor 488 (Product # A28175, 1:2000). Nuclei (blue) were stained using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962) and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Reduction of specific cytoplasmic localization was observed upon siRNA mediated knockdown (panel c,f) confirming specificity of the antibody to CD262 (DR5). The images were captured at 60X magnification.

CD262 (DR5) Antibody (14-9908-82) in ICC/IF

Immunofluorescence analysis of CD262 (DR5) was performed using log phase MDA-MB-231 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CD262 (DR5) Mouse Monoclonal Antibody (Product # 14-9908-82) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization of CD262 (DR5). Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



View more figures on thermofisher.com

12 References

Western Blot (2)

Cell death & disease

YIPF2 promotes chemotherapeutic agent-mediated apoptosis via enhancing TNFRSF10B recycling to plasma membrane in non-small cell lung cancer cells.

"Published figure using CD262 (DR5) monoclonal antibody (Product # 14-9908-82) in Flow Cytometry"

Authors: Wang Y,Guo S,Li D,Tang Y,Li L,Su L,Liu X

Species

Not Applicable

Dilution

Not Cited

Year

2020

Cell death discovery

Targeting the metabolic pathway of human colon cancer overcomes resistance to TRAIL-induced apoptosis.

"Published figure using CD262 (DR5) monoclonal antibody (Product # 14-9908-82) in Western Blot"

Authors: Carr RM,Qiao G,Qin J,Jayaraman S,Prabhakar BS,Maker AV

Species

Human

Dilution

Not Cited

Year

2016

Immunocytochemistry (1)

PloS one

TRAIL-mediated apoptosis in breast cancer cells cultured as 3D spheroids.

"Published figure using CD262 (DR5) monoclonal antibody (Product # 14-9908-82) in Flow Cytometry"

Authors: Chandrasekaran S,Marshall JR,Messing JA,Hsu JW,King MR

Species

Not Applicable

Dilution

Not Cited

Year

2015

Flow Cytometry (8)

Scientific reports

Death agonist antibody against TRAILR2/DR5/TNFRSF10B enhances birinapant anti-tumor activity in HPV-positive head and neck squamous cell carcinomas.

"Published figure using CD262 (DR5) monoclonal antibody (Product # 14-9908-82) in Flow Cytometry"

Authors: An Y,Jeon J,Sun L,Derakhshan A,Chen J,Carlson S,Cheng H,Silvin C,Yang X,Van Waes C,Chen Z

Species

Not Applicable

Dilution

Not Cited

Year

2021

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More applications with references on thermofisher.com

RIA (1)

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