

Product Datasheet

TNFRSF10B Antibody (orb1239348)

Catalog Number	orb1239348
Category	Antibodies
Description	TNFRSF10B Antibody
Target	TNFRSF10B
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Mouse, Rat
Form/Appearance	Liquid
Concentration	1 mg/ml
Buffer/Preservatives	DR5 Antibody is supplied in PBS containing 0.02% sodium azide.
Purification	DR5 Antibody is affinity chromatography purified via peptide column.
Immunogen	DR5 antibody was raised against a peptide corresponding to 20 amino acids near the carboxy terminus of human DR5 precursor. The immunogen is located within the last 50 amino acids of DR5.
UniProt ID	O14763
MW	Predicted: 48kD and 45kD Observed: 48kD and 45kD
Tested applications	ELISA, IF, IHC-P, WB

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7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

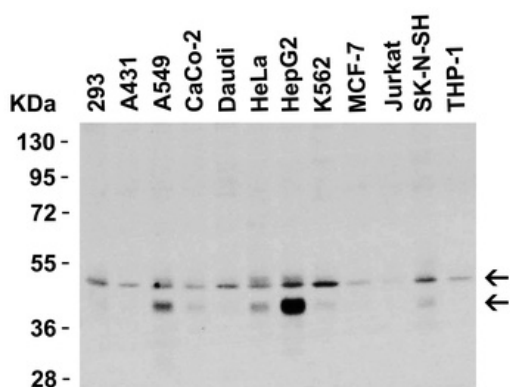
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Application notes	WB: 0.5-2 µg/mL; IHC-P: 5 µg/mL; IF: 5-10 µg/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunohistochemistry in mouse samples; Immunocytochemistry in human samples and Immunofluorescence in human, mouse and rat samples. All other applications and species not yet tested.
Specificity	Antibody has no cross reaction to DR4.
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
NCBI	AF012535
Expiration Date	12 months from date of receipt.



Western Blot Validation in Human Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: DR5 orb1239348, (0.5 µg/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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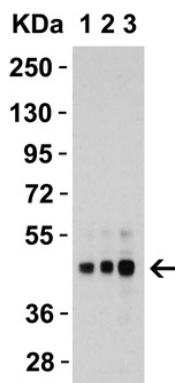
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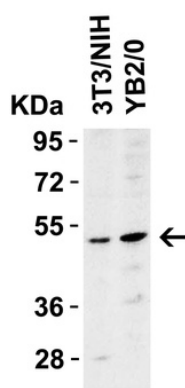
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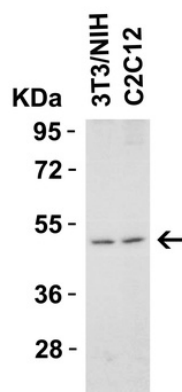
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Western Blot Validation in Human HepG2 Cells. Loading: 15 μ g of lysates per lane. Antibodies: DR5 orb1239348, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 1 μ g/mL, Lane 2: 2 μ g/mL, Lane 3: 4 μ g/mL.



Western Blot Validation in Mouse and Rat Cell Lines. Loading: 15 μ g of lysates per lane. Antibodies: DR5 orb1239348, (2 μ g/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP.



Western Blot Validation in Mouse Cell Lines. Loading: 15 μ g of lysates per lane. Antibodies: DR5 orb1239348, (1 μ g/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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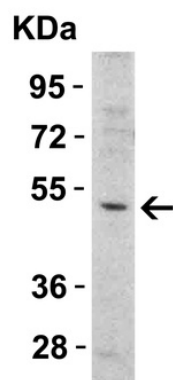
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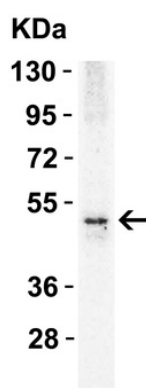
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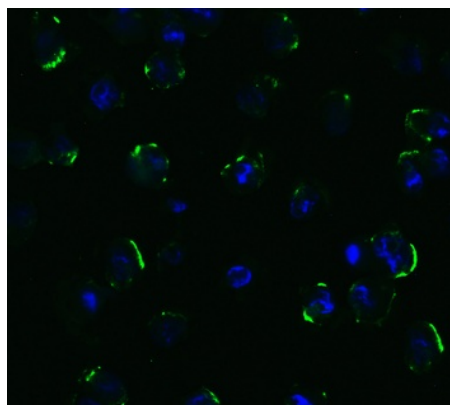
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Western Blot Validation in Mouse Heart. Loading: 15 μ g of lysates per lane. Antibodies: DR5 orb1239348, (1 μ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Rat Skeletal Muscle. Loading: 15 μ g of lysate per lane. Antibodies: DR5 orb1239348, (1 μ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of DR5 in Human HepG2 Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed human HepG2 cells labeling DR5 with orb1239348 at 5 μ g/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI (blue).

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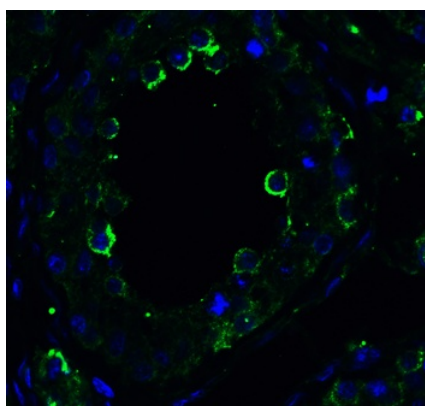
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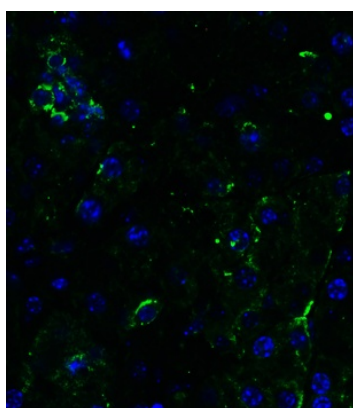
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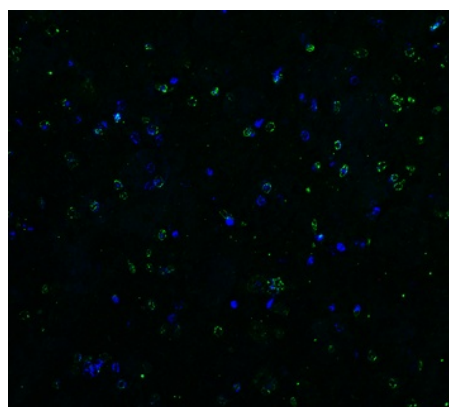
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Immunofluorescence Validation of DR5 in Human Testis.
Immunofluorescent analysis of 4% paraformaldehyde-fixed human testis tissue labeling DR5 with orb1239348 at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI (blue).



Immunofluorescence Validation of DR5 in Mouse Pancreas.
Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse pancreas tissue labeling DR5 with orb1239348 at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI (blue).



Immunofluorescence Validation of DR5 in Rat Brain.
Immunofluorescent analysis of 4% paraformaldehyde-fixed rat brain tissue labeling DR5 with orb1239348 at 5 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI (blue).

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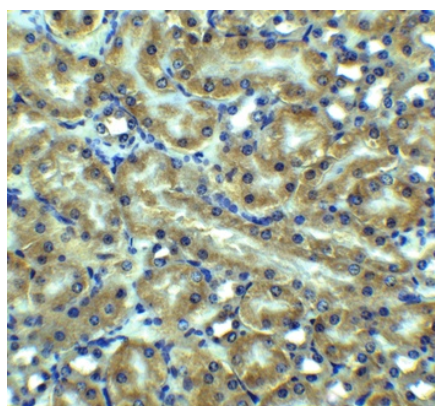
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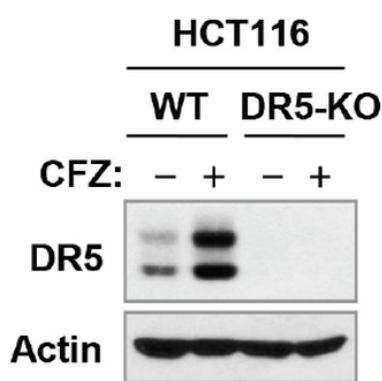
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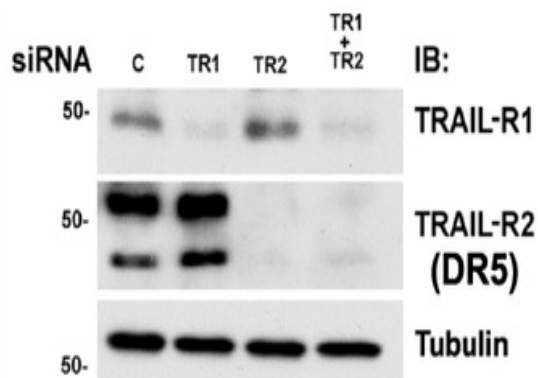
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Immunohistochemistry Validation of DR5 in Mouse kidney tissue. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-DR5 antibody (orb1239348) at 5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



KO Validation of DR5 in HCT116 Cells (Han et al., 2015). Anti-cancer drug, Carfilzomib (CFZ), induced up-regulation of DR5 and the expression of DR5 was not detected in DR5-KO HCT 116 cell line with anti-DR5 antibodies (orb1239348).



KD Validation of DR5 in MB231 Cells (Rahman et al., 2009). Western blot analysis with anti-DR5 antibodies was performed for DR5 in MB231 cells transfected with control siRNA or DR5 siRNA. DR5 expression was disrupted after DR5 siRNA knockdown.

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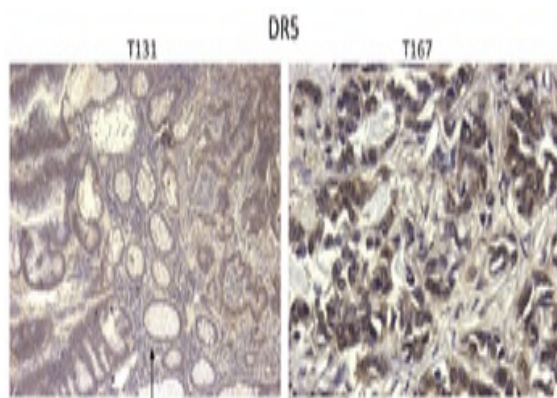
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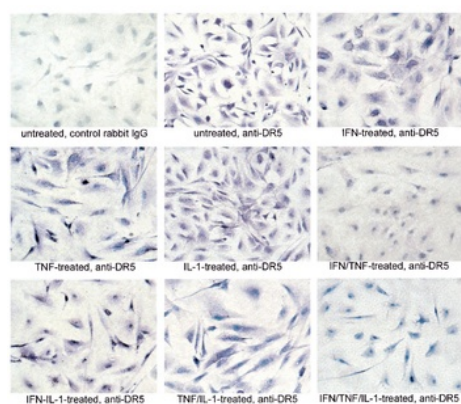
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Immunohistochemistry Validation of BIM in Human Colon Tumors (Devetzi et al., 2016). Protein analysis for DR5 by immunohistochemistry with anti-DR5 antibodies in human colon tumors. Strong immunoreactivity is shown for DR5 in T167 patient with colorectal cancer.



Regulated Expression Validation of DR5 in Thyroid Epithelial Cells (Bretz et al., 2002). Immunostaining with anti-DR5 antibodies shows high levels of DR5 expression in untreated cells and cells treated with each of the three cytokines alone or TNFalpha combined with IL-1b. In contrast, treatment with both IFNg and TNFalpha or all three cytokines greatly reduces DR5 staining. The reduction in staining appears most significant in cytoplasmic regions while some staining is maintained in or around the nucleus.

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Research Triangle Park
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United States

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Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)