Product Datasheet

IGF-I R/IGF1R Antibody - BSA Free
NBP1-77679

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 3

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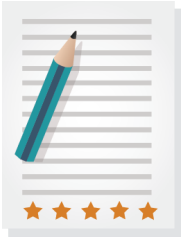
Updated 4/13/2025 v.20.1



NBP1-77679

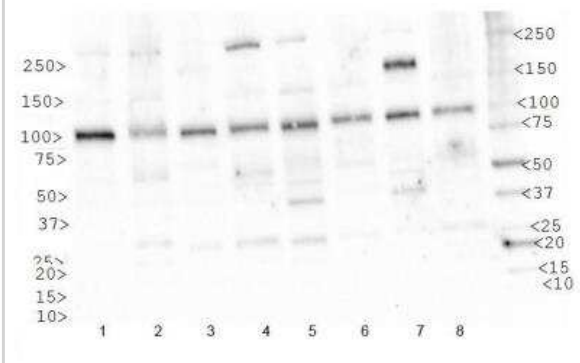
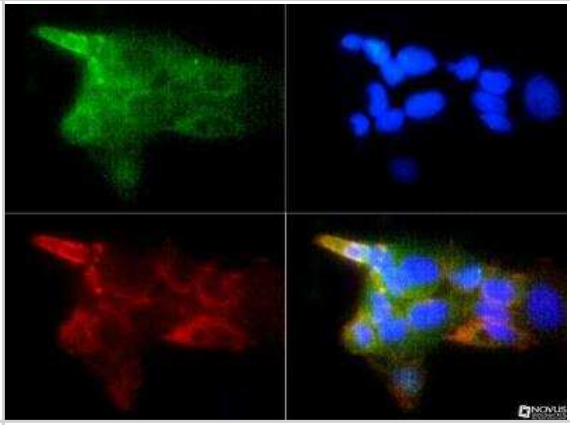
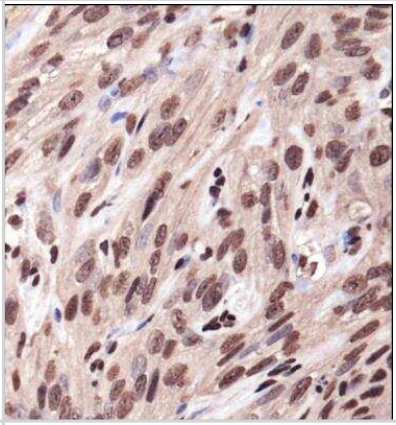
IGF-I R/IGF1R Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.05 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol

Product Description	
Host	Rabbit
Gene ID	3480
Gene Symbol	IGF1R
Species	Human, Mouse, Rat, Primate
Immunogen	A synthetic peptide made to a C-terminal portion of the human IGF1 Receptor protein (between residues 1300-1367) [UniProt P08069].

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1 ug/ml, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:100, Immunohistochemistry-Paraffin 1:200
Application Notes	This IGFR1 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot where a band is seen ~100 kDa. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HepG2 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:100, apparent MW was 103 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

Western Blot: IGF-I R Antibody [NBP1-77679] - Analysis of IGF-1R in 1. HeLa, 2. Ntera2, 3. A431, 4. HepG2, 5. MCF7, 6. NIH/3T3, 7. SK-BR-3 and 8. COS7	
Immunocytochemistry/Immunofluorescence: IGF-I R Antibody [NBP1-77679] - IGF-1 R antibody was tested in A431 cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and Phalloidin (red).	
Immunohistochemistry-Paraffin: IGF-I R Antibody [NBP1-77679] - IHC analysis of a formalin fixed paraffin embedded tissue section of the human kidney cancer xenograft using 1:200 dilution of IFG-I R antibody (NBP1-77679). The signal was developed using HRP-DAB method which followed counterstaining of the cells with hematoxylin.	
Simple Western: IGF-I R Antibody [NBP1-77679] - Simple Western lane view shows a specific band for IGF-1 R in 0.5 mg/ml of HepG2 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	

Publications

Xu G, Chen J, Lu B, Sethupathy P et Al. Verapamil Prevents Decline of IGF-I in Subjects With Type 1 Diabetes and Promotes ?-Cell IGF-I Signaling Diabetes 2023-07-26 [PMID: 37494660]

Liang Z, Zhang Z, Zhang Q et al. The proprotein convertase furin regulates the development of thymic epithelial cells to ensure central immune tolerance iScience 2022-10-21 [PMID: 36274943]

Kalantzakos TJ, Sebel LE, Trussler J et al. MicroRNA Associated with the Invasive Phenotype in Clear Cell Renal Cell Carcinoma: Let-7c-5p Inhibits Proliferation, Migration, and Invasion by Targeting Insulin-like Growth Factor 1 Receptor Biomedicines 2022-09-28 [PMID: 36289686] (Simple Western, Human)

Procedures

Western Blot protocol specific for IGF1R antibody (NBP1-77679)
IGF-I R/IGF1R Antibody:
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

*Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

Immunocytochemistry/Immunofluorescence Protocol for IGF1 Receptor Antibody (NBP1-77679)
IGF-I R/IGF1R Antibody:
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.
1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

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Immunohistochemistry-Paraffin Embedded Sections protocol specific for IGF1R antibody (NBP1-77679)
IGF-I R/IGF1R Antibody:
Immunohistochemistry-Paraffin Embedded Sections
Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.
Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.
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NB800-PC1	HeLa Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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