

Product Datasheet

IGF-I R Antibody NB100-81980

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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NB100-81980

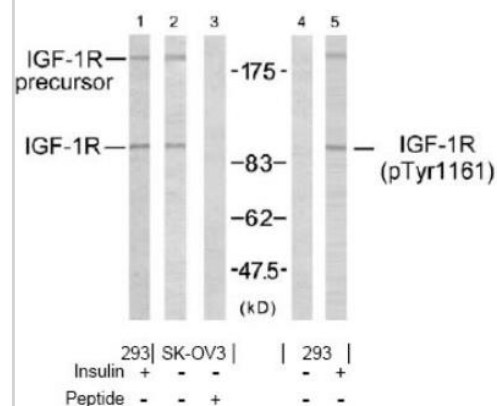
IGF-I R Antibody

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, and 50% glycerol.
Product Description	
Host	Rabbit
Gene ID	3480
Gene Symbol	IGF1R
Species	Human, Mouse, Rat
Specificity/Sensitivity	IGF-1R (specific to a.a. 1161) detects endogenous levels of total IGF-1R protein.
Immunogen	Peptide sequence around aa. 1161 (D-I-Y-E-T) derived from Human IGF-1R (NP_000866.1)
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry 1:50-1:100, Immunocytochemistry/Immunofluorescence 1:100-1:200, Immunohistochemistry-Paraffin 1:50-1:100

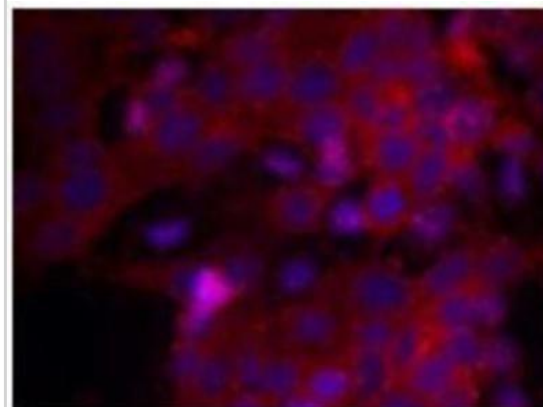


Images

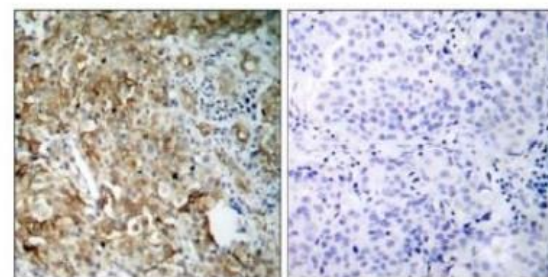
Western Blot: IGF-I R Antibody [NB100-81980] - Analysis using IGF-1R (Ab-1161) antibody (Line 1, 2 and 3) and IGF-1R (phospho-Tyr1161) antibody (Line 4 and 5).



Immunocytochemistry/Immunofluorescence: IGF-I R Antibody [NB100-81980] - Staining of methanol-fixed MCF cells using IGF1 Receptor antibody.

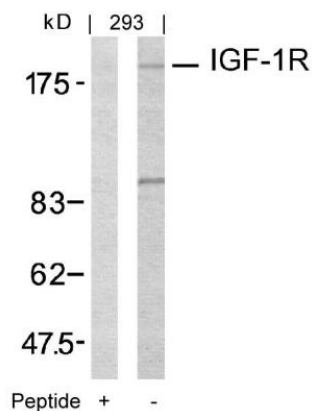


Immunohistochemistry: IGF-I R Antibody [NB100-81980] - Analysis of paraffin-embedded human breast carcinoma tissue using IGF-1R (Ab-1161) antibody.



Peptide - +

Western Blot: IGF-I R Antibody [NB100-81980] - Analysis of extracts from 293 cells and the same antibody preincubated with blocking peptide.



Publications

Sin STK, Li Y, Liu M et al. TROP-2 exhibits tumor suppressive functions in cervical cancer by dual inhibition of IGF-1R and ALK signaling. *Gynecol. Oncol.* Nov 12 2018 12:00AM [PMID: 30429055] (WB, Human)

Procedures

Protocol specific for IGF1 Receptor Antibody (NB100-81980)

Deparaffinization:

1. Incubate slide at 60C for 60 minutes.
2. Deparaffinize in Xylene for 10 minutes and repeat one more times.
3. Hydrate in 100% alcohol for 5 minutes, in 95% alcohol for 5 minutes, in 85% alcohol for 5 minutes, in 75% alcohol for 5 minutes.
4. Dip into Distill Water for 5 minutes.
5. Dip into TBS (50 mM Tris, 100 mM NaCl, pH 7.6), leave for 5 minutes, and repeat two times.

Antigen Retrieval:

6. Bring 500 - 2000 ml 10 mM citrate buffer (pH6.0) to the boil in a stainless steel pressure cooker.
7. Put the slide into staining rack and lower into pressure cooker ensuring the slide is well immersed in citrate buffer.
8. When the pressure indicator valve has risen after 3 to 4 minutes, incubate for 1 minute.
9. Cool the slide naturally to room temperature.
10. Dip into distilled water, leave for 5 minutes, and repeat two times.
11. Dip the slide in TBS for 5 minutes and repeat two times.
12. Immerse slides in 3% H₂O₂ (in fresh methanol) for 15 minutes at room temperature.
13. Wash with distilled water two times, 5 minutes each time.
14. Wash with TBS (pH 7.6) two times, 5 minutes each time.

Staining with Primary Antibody:

15. Dilute primary antibody with 3% BSA in TBS. Cover the tissue section on the slide with diluted primary antibody (use 50 to 150ul for each slide).
16. Incubate at 37 degrees C for 30 minutes or at room temperature for 60 minutes (The optimal incubation time, incubation temperature, and antibody dilution should be determined by the individual laboratory).
17. Wash with TBS two times, 5 minutes each time.

Staining with Secondary Antibody:

18. Incubate with 100-200ul Polymer Enhancer. Incubate 30 minutes at 37 degrees C.
19. Wash with TBS for 3 times, 5 minutes each time.
20. Incubate with 100-200ul Polymerized HRP and incubate 30 minutes at 37 degrees C
21. Wash with TBS for 3 times, 5 minutes each time.

22. Add DAB solution and incubate 3-10 minutes (The reaction progress and the optimal time should be determined according to microscope).

23. Wash with distilled water for 2 times, 5 minutes each time.

24. Counterstain sections in hematoxylin if required, wash with distilled water. Immerse slides in 0.1% HCl-ethanol for 1-10 seconds, wash with distilled water.

25. Dehydrate through 95% ethanol for 1 minute, 100% ethanol for 2X 3min, Xylene for 2 times 3min, and cover with mounting medium.



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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