Product Datasheet

CDR2 Antibody (33)
NBP2-10509

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: 1

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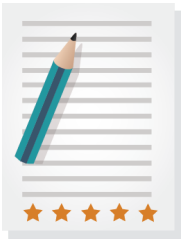
Updated 7/8/2021 v.20.1



NBP2-10509

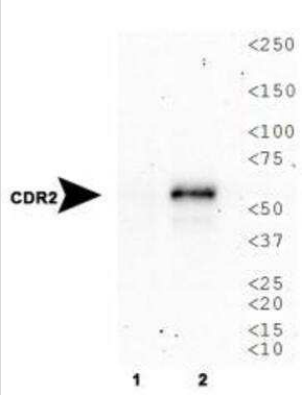
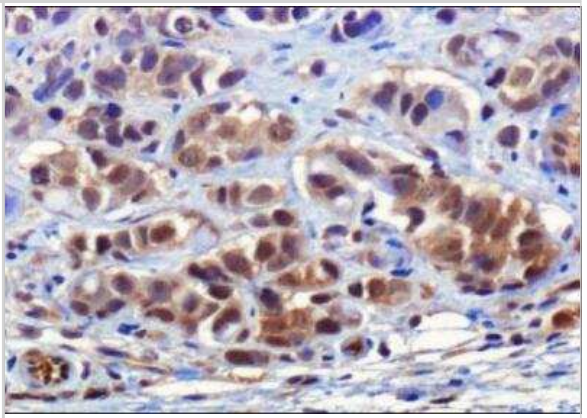
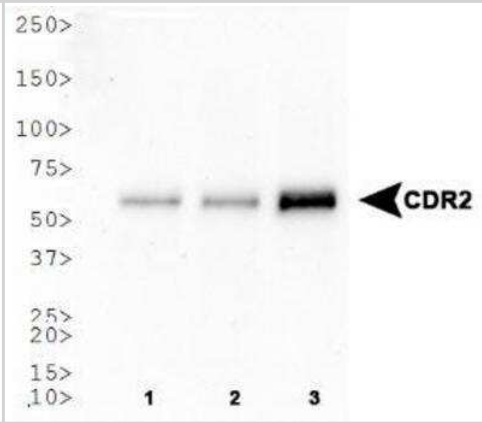
CDR2 Antibody (33)

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	Monoclonal
Clone	33
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	Tris-Glycine (pH 7.5) and 0.15M NaCl

Product Description	
Host	Mouse
Gene ID	1039
Gene Symbol	CDR2
Species	Human, Mouse (Negative)
Reactivity Notes	Human. Does not react with mouse.
Specificity/Sensitivity	Does not cross react with mouse Cdr2 and human Cdr3.
Immunogen	N-terminal MBP-tagged full length human CDR2 [Swiss-Prot # Q01850]

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, ELISA 1:100-1:2000, Immunohistochemistry 1:50-1:100, Immunoprecipitation 1:10-1:100, Immunohistochemistry-Paraffin 1:50-1:100
Application Notes	This CDR2 Antibody (33) is useful for Western blot, Immunoprecipitation, Immunohistochemistry on paraffin-embedded sections and ELISA. In Western blot, a single or double band can be seen around 55 kDa representing CDR2. In IHC-P, heavy nuclear staining was observed with some cytoplasmic signal in human breast cancer. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

Images

Western Blot: CDR2 Antibody (33) [NBP2-10509] - Western blot analysis of CDR2 expression in 1) HeLa control cell lysate and 2) HeLa cell lysate overexpressing CDR2.	
Immunohistochemistry: CDR2 Antibody (33) [NBP2-10509] - IHC staining of CDR2 in human breast cancer using DAB with hematoxylin counterstain.	
Western Blot: CDR2 Antibody (33) [NBP2-10509] - Western blot analysis of CDR2 expression in 1) HeLa, 2) NTERA-2 and 3) HepG2 whole cell lysates.	

Publications

Balamurugan K, Luu VD, Kaufmann MR, Hofmann VS, Boysen G, Barth S, Bordoli MR, Stiehl DP, Moch H, Schraml P, Wenger RH, Camenisch G. Onconeuronal cerebellar degeneration-related antigen, Cdr2, is strongly expressed in papillary renal cell carcinoma and leads to attenuated hypoxic response. Oncogene;28(37):3274-85. 2009-09-17 [PMID: 19581925] (WB, IF/IHC, Human)

Procedures

Protocol Specific for CDR2 Antibody (33) [NBP2-10509]
CDR2 Antibody (33):
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%.

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 4 C.
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.

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

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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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