Product Datasheet

AKAP95/AKAP8 Antibody
NBP1-79139

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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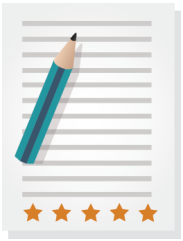
Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-79139

Updated 2/19/2021 v.20.1



NBP1-79139

AKAP95/AKAP8 Antibody

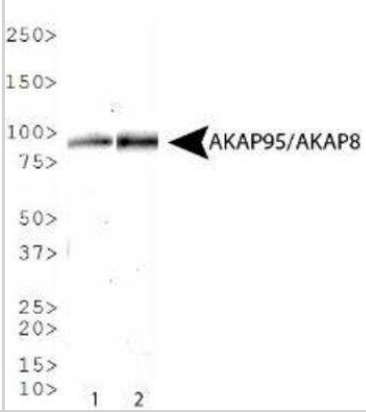
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	95 kDa

Product Description	
Host	Rabbit
Gene ID	10270
Gene Symbol	AKAP8
Species	Human, Mouse
Reactivity Notes	Human and mouse.
Marker	Nucleus without Nucleoli Marker
Immunogen	Human AKAP95/AKAP8 peptide within amino acids 650 to 692 [Swiss-Prot# O43823].

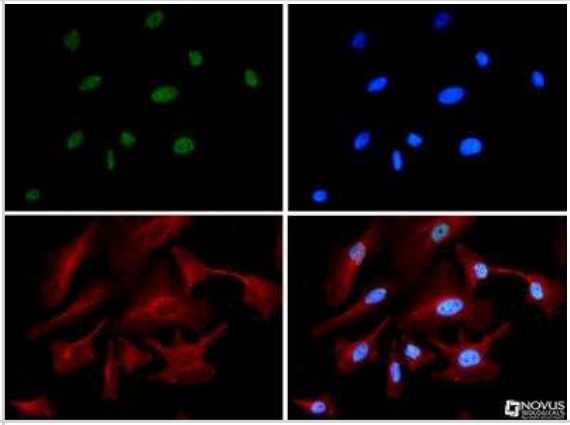
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry, Immunohistochemistry 1:100, Immunocytochemistry/Immunofluorescence 1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:100
Application Notes	This AKAP95/AKAP8 antibody is useful for Immunocytochemistry/Immunofluorescence, Immunoprecipitation, Western Blot, and Immunohistochemistry on paraffin-embedded sections. Use in Flow Cytometry reported in scientific literature (PMID: 16980585). In ICC/IF, nuclear staining was observed in HeLa cells. In Western Blot, a band can be seen at ~95 kDa representing AKAP95/AKAP8. In IHC-P, staining was observed in the nucleus, specifically nucleoli of human ovarian cancer tissue. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

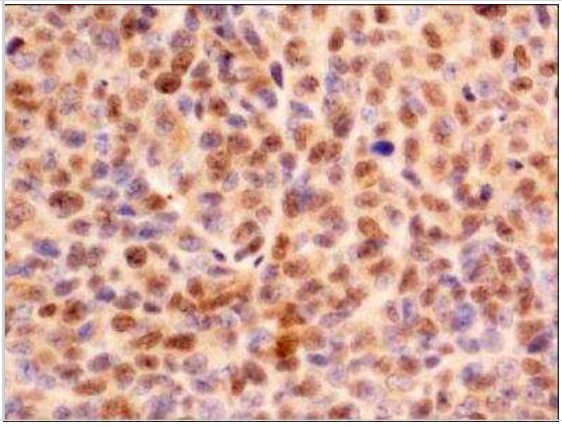
Western Blot: AKAP95/AKAP8 Antibody [NBP1-79139] - Western blot analysis of AKAP95/AKAP8 expression in 1) A431 and 2) NIH-3T3 whole cell lysates.



Immunocytochemistry/Immunofluorescence: AKAP95/AKAP8 Antibody [NBP1-79139] - AKAP95/AKAP8 antibody was tested in HeLa cells at 1:500 with DyLight 488 (green). Nuclei and alpha Tubulin (NB100-690) were counterstained with DAPI (blue) and DyLight 550 (red).



Immunohistochemistry: AKAP95/AKAP8 Antibody [NBP1-79139] - IHC staining of AKAP95/AKAP8 in human ovarian cancer using DAB with hematoxylin counterstain.



Publications

Li Y, Kao GD, Garcia BA, Shabanowitz J, Hunt DF, Qin J, Phelan C, Lazar MA. A novel histone deacetylase pathway regulates mitosis by modulating Aurora B kinase activity. Genes Dev. 20(18):2566-79. PubMed PMID: 16980585. 2006-09-15 [PMID: 16980585] (ICC/IF, FLOW, IP, Human)

Procedures

Serum protocol for AKAP95/AKAP8 Antibody (NBP1-79139)
AKAP95/AKAP8 Antibody: https://www.novusbio.com/products/akap95-akap8-antibody_nbp1-79139
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.

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.

*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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