

LIN54 Antibody

Catalog # ASC11838

Specification

LIN54 Antibody - Product Information

Application IHC
Primary Accession Q6MZP7

Other Accession
Reactivity
Host
Clonality
Reactivity
Reactivity
Human, Mouse, Rat
Rabbit
Polyclonal

Clonality Poly Isotype IgG

Calculated MW Predicted: 88 kDa

Observed: 82 kDa KDa

Application Notes

LIN54 antibody can be used for detection of LIN54 by Western blot at 1 - 2 µg/mL.

Antibody can also be used for

immunocytochemistry at 2.5 μg/mL. For immunofluorescence start at 20 μg/mL

LIN54 Antibody - Additional Information

Gene ID 132660

Target/Specificity

LIN54 antibody was raised against a 16 amino acid peptide near the carboxy terminus of human LIN54.

Str>The immunogen is located within the last 50 amino acids of LIN54.

Reconstitution & Storage

LIN54 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

LIN54 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LIN54 Antibody - Protein Information

Name LIN54

Synonyms CXCDC1, KIAA2037

Function

Component of the DREAM complex, a multiprotein complex that can both act as a transcription activator or repressor depending on the context (PubMed:<a

 $\label{lem:http://www.uniprot.org/citations/17531812" target="_blank">17531812, PubMed:17671431). In G0 phase, the complex binds to more than 800 promoters and is required for repression of E2F target genes (PubMed:17531812, PubMed:17671431).$



In S phase, the complex selectively binds to the promoters of G2/M genes whose products are required for mitosis and participates in their cell cycle dependent activation (PubMed:17531812, PubMed:17671431). In the complex, acts as a DNA-binding protein that binds the promoter of CDK1 in a sequence- specific manner (PubMed:19725879). Specifically recognizes the consensus motif 5'-TTYRAA-3' in target DNA (PubMed:27465258).

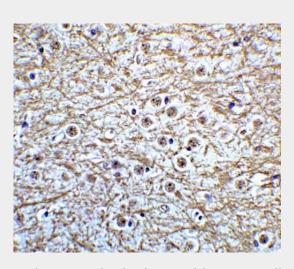
Cellular Location Nucleus.

LIN54 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LIN54 Antibody - Images



Immunohistochemistry of MSI2 in mouse brain tissue with MSI2 Antibodyat 5 µg/mL.

LIN54 Antibody - Background

LIN54 is a component of the LIN, or DREAM, complex, an essential regulator of cell cycle genes. This complex functions as a transcriptional repressor by binding to promoters of E2F target genes that regulate the G1/S transition (1). LIN54 is required for cell cycle progression and can bind to the cdc2 promoter in a sequence-specific manner (2).

LIN54 Antibody - References

Schmit F, Cremer S, and Gaubatz S. LIN54 is an essential core subunit of the DREAM/LINC complex







that binds to the cdc2 promotoer in a sequence-specific manner. FEBS J. 2009; 276:5703-16. Matsuo T, Kuramoto H, Kumazaki T, et al. LIN54 harboring a mutation in CHC domain is localized to the cytoplasm and inhibits cell cycle progression. Cell Cycle 2012; 11:3227-36.