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CCDC55 Antibody

Catalog # ASC11384

Product Information

Application	WB, IF, E
Primary Accession	Q9H0G5
Other Accession	NP_115517, 14149807
Reactivity	Human, Mouse, Rat
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	66390
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CCDC55 antibody can be used for detection of CCDC55 by Western blot at 0.5 - 1 □g/mL. Antibody can also be used for immunofluorescence starting at 20 □g/mL. For immunofluorescence start at 20 □g/mL.

Additional Information

Gene ID	84081
Other Names	Nuclear speckle splicing regulatory protein 1, Coiled-coil domain-containing protein 55, Nuclear speckle-related protein 70, NSrp70, NSRP1, CCDC55, NSRP70
Target/Specificity	NSRP1; At least three isoforms are known to exist; this antibody will detect all three.
Reconstitution & Storage	CCDC55 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CCDC55 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NSRP1
Synonyms	CCDC55, NSRP70
Function	RNA-binding protein that mediates pre-mRNA alternative splicing regulation.
Cellular Location	Nucleus. Nucleus speckle. Note=Colocalizes with splicing factors SRSF1 and SRSF2 in speckles

Tissue Location	Expressed in dendritic cells, T-cells, B-cells and natural killer cells. Expressed in secondary lymphoid organs such as spleen and mesenteric, axillary and brachial lymph nodes

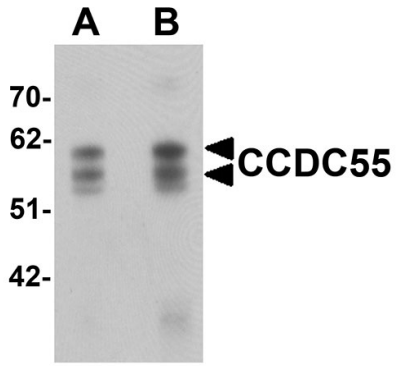
Background

CCDC55 Antibody: CCDC55, also known as Nuclear speckle-related protein 70 (NSrp70), was initially identified by the NIH Mammalian Gene Collection. Nuclear speckles are known to be the storage sites of mRNA splicing regulators. CCDC55 has been suggested to modulate alternative pre-mRNA splicing in vivo. It co-localizes and physically interacts with the SR proteins SC35 and ASF/SF2, essential splicing factors which are required for constitutive splicing and can regulate alternative mRNA splicing. Loss of CCDC55 in mice leads to early embryonic lethality highlights the importance of the functional role of CCDC55.

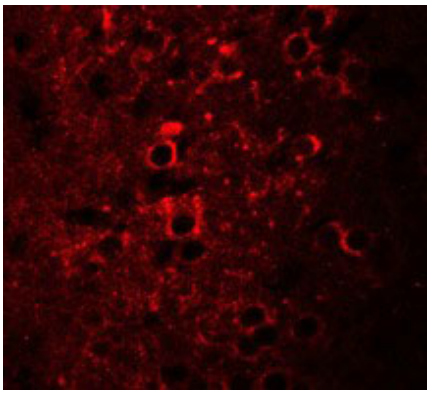
References

Kim YD, Lee JY, Oh KM, et al. NSrp70 is a novel nuclear speckle-related protein that modulates alternative pre-mRNA splicing in vivo. Nuc. Acids Res. 2011; 39:4300-14.

Images



Western blot analysis of CCDC55 in human brain tissue lysate with CCDC55 antibody at (A) 0.5 and (B) 1 µg/mL



Immunofluorescence of CCDC55 in mouse brain cells with CCDC55 antibody at 20 µg/mL.