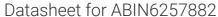
antibodies - online.com







anti-NCBP2 antibody (N-Term)





Overview	
Quantity:	100 μL
Target:	NCBP2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NCBP2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human NCBP2, corresponding to a region within N-terminal amino acids.
Isotype:	IgG
Specificity:	NCBP2 Antibody detects endogenous levels of total NCBP2.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	NCBP2

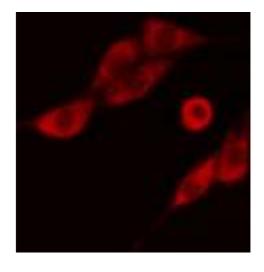
Alternative Name:	NCBP2 (NCBP2 Products)
Background:	Description: Component of the cap-binding complex (CBC), which binds co-transcriptionally to
	the 5' cap of pre-mRNAs and is involved in various processes such as pre-mRNA splicing,
	translation regulation, nonsense-mediated mRNA decay, RNA-mediated gene silencing (RNAi)
	by microRNAs (miRNAs) and mRNA export. The CBC complex is involved in mRNA export from
	the nucleus via its interaction with ALYREF/THOC4/ALY, leading to the recruitment of the
	mRNA export machinery to the 5' end of mRNA and to mRNA export in a 5' to 3' direction
	through the nuclear pore. The CBC complex is also involved in mediating U snRNA and
	intronless mRNAs export from the nucleus. The CBC complex is essential for a pioneer round
	of mRNA translation, before steady state translation when the CBC complex is replaced by
	cytoplasmic cap-binding protein eIF4E. The pioneer round of mRNA translation mediated by the
	CBC complex plays a central role in nonsense-mediated mRNA decay (NMD), NMD only taking
	place in mRNAs bound to the CBC complex, but not on eIF4E-bound mRNAs. The CBC complex
	enhances NMD in mRNAs containing at least one exon-junction complex (EJC) via its
	interaction with UPF1, promoting the interaction between UPF1 and UPF2. The CBC complex i
	also involved in 'failsafe' NMD, which is independent of the EJC complex, while it does not
	participate in Staufen-mediated mRNA decay (SMD). During cell proliferation, the CBC comple
	is also involved in microRNAs (miRNAs) biogenesis via its interaction with SRRT/ARS2, thereb
	being required for miRNA-mediated RNA interference. The CBC complex also acts as a negative
	regulator of PARN, thereby acting as an inhibitor of mRNA deadenylation. In the CBC complex,
	NCBP2/CBP20 recognizes and binds capped RNAs (m7GpppG-capped RNA) but requires
	NCBP1/CBP80 to stabilize the movement of its N-terminal loop and lock the CBC into a high
	affinity cap-binding state with the cap structure. The conventional cap-binding complex with
	NCBP2 binds both small nuclear RNA (snRNA) and messenger (mRNA) and is involved in their
	export from the nucleus (PubMed:26382858).
	Gene: NCBP2
Molecular Weight:	18 kDa
Gene ID:	22916
UniProt:	P52298
Pathways:	Ribonucleoprotein Complex Subunit Organization, Methionine Biosynthetic Process
Application Details	
Application Notes:	WB 1:500-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000

Application Details

Handling

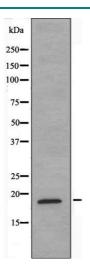
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Immunofluorescence (fixed cells)

Image 1. ABIN6274279 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody.



Western Blotting

Image 2. Western blot analysis of extracts from COLO205 cells, using NCBP2 antibody.