

For Research Use Only

CITED2 Polyclonal antibody

Catalog Number: 15021-1-AP

1 Publications



Basic Information

Catalog Number: 15021-1-AP	GenBank Accession Number: BC004377	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 173 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10370	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: Q99967	IHC 1:50-1:500
Isotype: IgG	Full Name: Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG7078	Calculated MW: 28 kDa	
	Observed MW: 36 kDa, 27 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : SH-SY5Y cells, mouse brain tissue
Cited Applications: WB	IHC : mouse brain tissue, mouse ovary tissue
Species Specificity: human, mouse, rat	IF/ICC : SH-SY5Y cells,
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CITED2, also named as P35srj, is a cAMP-responsive element-binding protein (CBP)/p300-transactivator, with an ED(Glu/Asp)-rich C-terminal domain that acts as an important modulator in the development of the heart [PMID:10552932]. There are two isoforms of CITED2 protein and the calculated molecular weight of them are 24kDa and 28 kDa. The 28 kDa isoform having modification site may migrate to 35 kDa and 24 kDa isoform having modification site may migrate to 27 kDa (PMID: 23082118). It is proposed to be a negative regulator of HIF-1 α through its competitive binding to the CH1 domain of CBP/p300, which mediated signaling and to a decrease in HIF-1-responsive genes such as VEGF [PMID:9887100]. In addition, it is also a co-activator of the transcriptional activity of the TFAP2 isoform, which is an extensively expressed nuclear protein with functions in embryogenesis, inflammation, and stress responses[PMID:22735262].

Notable Publications

Author	Pubmed ID	Journal	Application
Yan Jiang	28013219	Toxicol Sci	WB

Storage

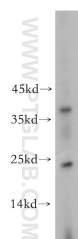
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

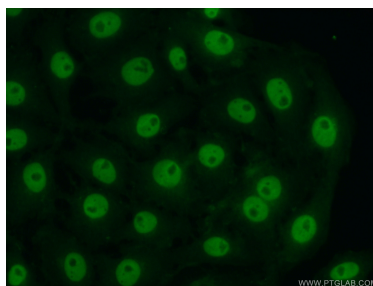
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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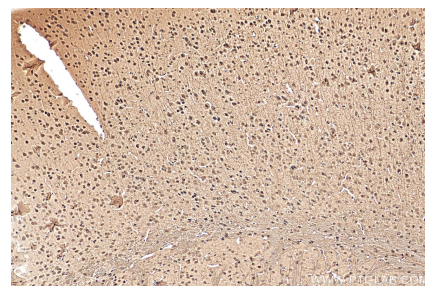
Selected Validation Data



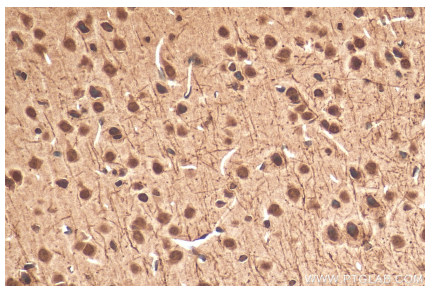
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 15021-1-AP (CITED2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



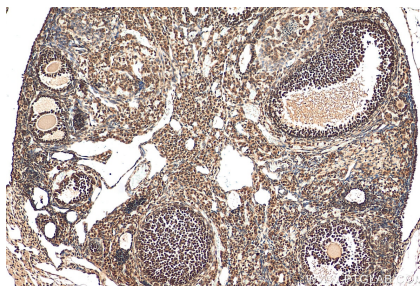
Immunofluorescent analysis of (10% Formaldehyde) fixed SH-SY5Y cells using 15021-1-AP (CITED2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15021-1-AP (CITED2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15021-1-AP (CITED2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 15021-1-AP (CITED2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).