

ARG55220 anti-CTDSP1 antibody

Package: 100 μl Store at: -20°C

Summary

| Product Description | Rabbit Polyclonal antibody recognizes CTDSP1 |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tested Reactivity | Hu, Ms |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | lgG |
| Target Name | CTDSP1 |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide corresponding to aa. 16-50 (N-terminus) of Human CTDSP1. |
| Conjugation | Un-conjugated |
| Alternate Names | NLI-interacting factor 3; Small CTD phosphatase 1; Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1; NLIIF; Nuclear LIM interactor-interacting factor 3; EC 3.1.3.16; NLI-IF; NIF3; SCP1; Small C-terminal domain phosphatase 1 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | HepG2 | |

Properties

| Form | Liquid |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification | Purification with Protein A and immunogen peptide. |
| Buffer | PBS and 0.09% (W/V) Sodium azide |
| Preservative | 0.09% (W/V) Sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| Database links | GeneID: 227292 Mouse |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | GenelD: 58190 Human |
| | Swiss-port # P58466 Mouse |
| | Swiss-port # Q9GZU7 Human |
| Gene Symbol | CTDSP1 |
| Gene Full Name | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 |
| Background | This gene encodes a member of the small C-terminal domain phosphatase (SCP) family of nuclear phosphatases. These proteins play a role in transcriptional regulation through specific dephosphorylation of phosphoserine 5 within tandem heptapeptide repeats of the C-terminal domain of RNA polymerase II. The encoded protein plays a role in neuronal gene silencing in non-neuronal cells, and may also inhibit osteoblast differentiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011] |
| Function | Preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residue repeats in the C- terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A. Negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation. Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells. [UniProt] |
| Research Area | Gene Regulation antibody; Signaling Transduction antibody |
| Calculated Mw | 29 kDa |
| Cellular Localization | Nucleus. Note=Colocalizes with RNA polymerase II |

Images



ARG55220 anti-CTDSP1 antibody WB image

Western blot: 20 μg of HepG2 cell lysate stained with ARG55220 anti-CTDSP1 antibody at 1:1000 dilution.