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AM32014PU-N Monoclonal Antibody to POP7 - Purified

Alternate names: RPP20, Ribonuclease P protein subunit p20, Ribonucleases P/MRP protein subunit POP7 homolog, hPOP7

Quantity: 0.1 mg

Concentration: 0.5 mg/ml (when dissolved at 0.5 mg/ml, the BSA concentration will be 1%)

Background: The nuclei of eukaryotic cells contain several classes of small RNA-protein complexes. SnRNPs (small nuclear ribonucleoproteins) are involved in splicing of pre-mRNAs (the excision of introns) in the nucleoplasm. RPP20 is part of such a complex. SnoRNPs (small nucleolar ribonucleoproteins) are involved in the maturation of pre-ribosomal RNA in the nucleoli.
Pre-rRNA processing and modification require both the snoRNA and the protein constituents (such as Rpp20) of these complexes. Generally, snoRNPs contain a number of common proteins, which are shared with other snoRNPs of the same family, next to several particle-specific proteins. On average, snoRNPs contain about 6-10 protein subunits.

Uniprot ID: O75817

NCBI: NP_005828.2

GeneID: 10248

Host / Isotype: Mouse / IgG2a

Recommended Isotype Controls: AM03096PU-N

Clone: 1F11

Immunogen: Recombinant GST-hRPP20 (NCBI accession number AAC24113, expression vector pGEC-2T), expressed in *E.coli*.

Format:
State: Lyophilized purified Ig fraction
Buffer System: 10 mM Ammonium Bicarbonate buffer
Stabilizers: 2 mg BSA
Reconstitution: Dissolve in 200 µl buffer for a 0.5 mg/ml antibody concentration in 1% BSA

Applications:
ELISA.
Immunoblotting.
Recommended Solvent: 100 mM PBS or Tris-HCl, pH 7.0
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 20 kDa

Specificity: Specificity has been tested in ELISA.
In immunoblotting, under less stringent washing conditions, a weaker band of approximately 60 kDa is also detected (Figure 1, *Right Panel*).
Additional tests for cross reactivity have not yet been performed.

Species Reactivity: **Tested:** Human.

Storage: Store the antibody undiluted at 2-8ºC or Add up to 0.05% Sodium Azide for long term storage.
Shelf life: One year from despatch.

Caution: Be careful opening the vial since the antibody resides in a *Vacuum*.

General Readings:

1. Welting TJ, Raijmakers R, Pruijn GJ. Autoantigenicity of nucleolar complexes. Autoimmun Rev. 2003 Oct;2(6):313-21. PubMed PMID: 14550872.
2. van Eenennaam H, Jarrous N, van Venrooij WJ, Pruijn GJ. Architecture and function of the human endonucleases RNase P and RNase MRP. IUBMB Life. 2000 Apr;49(4):265-72. PubMed PMID: 10995027.
3. Welting TJ, van Venrooij WJ, Pruijn GJ. Mutual interactions between subunits of the human RNase MRP ribonucleoprotein complex. Nucleic Acids Res. 2004 Apr 19;32(7):2138-46. Print 2004. PubMed PMID: 15096576.

Pictures:

Figure 1. Specificity of anti-hRPP20 Immunoglobulin, clone 1F11, determined by immunoblot analysis Blot contains total cell extract of HEp2 cells. Incubated with antibody fraction (0.5 mg/ml) diluted 500X in PBS containing 0,05% tween-20 and 5% non fat dry milk. Left: washing under stringent conditions. Right: washing under less stringent conditions.