

Product datasheet for AP21068PU-M

POLR3A Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on Paraffin Sections: 1/50-1/200.

Reactivity: Human, Mouse

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of POLR3A protein.

(region surrounding Pro68)

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)

Preservative: 0.05% Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 156 kDa

Gene Name: polymerase (RNA) III subunit A

Database Link: Entrez Gene 218832 MouseEntrez Gene 11128 Human

O14802



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Background:

RNA polymerase III (Pol III) is a multi-subunit complex responsible for catalyzing the transcription of DNA into RNA. POLR3A (polymerase (RNA) III (DNA directed) polypeptide A), also known as RPC1 or RPC155, is a 1,390 amino acid protein that localizes to the nucleus and belongs to the RNA polymerase β chain family. Existing as the largest and catalytic core component of Pol III, POLR3A functions as a DNA-dependent RNA polymerase that catalyzes the conversion of a nucleoside triphosphate into a diphosphate, thereby transcribing DNA into RNA. The gene encoding POLR3A maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolmans syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

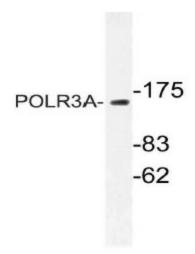
Synonyms: RNA polymerase III subunit C1, RPC1, RPC155

Protein Families: Transcription Factors

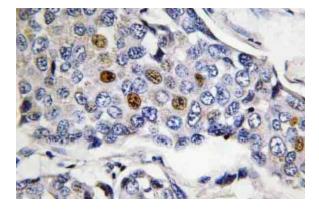
Protein Pathways: Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine

metabolism, RNA polymerase

Product images:



Western blot (WB) analysis of POLR3A antibody (Cat.-No.: [AP21068PU-N]) in extracts from HUVEC cells.



Immunohistochemistry (IHC) analyzes of POLR3A antibody (Cat.-No.: [AP21068PU-N]) in paraffinembedded human breast carcinoma tissue.