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Anti-RRP7A/B Antibody

Catalog # AP53942

Product Information

Application	WB, IHC
Primary Accession	Q9Y3A4
Other Accession	Q9NSQ0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32334

Additional Information

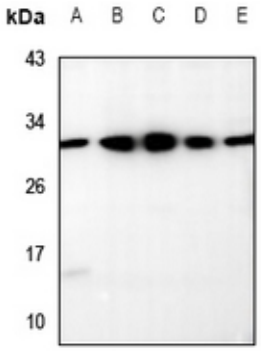
Gene ID	27341
Other Names	RRP7A; CGI-96; Ribosomal RNA-processing protein 7 homolog A; Gastric cancer antigen Zg14; RRP7B; Putative ribosomal RNA-processing protein 7 homolog B; Putative gastric cancer antigen Zg14-like protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RRP7A/B. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/2000 IHC~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

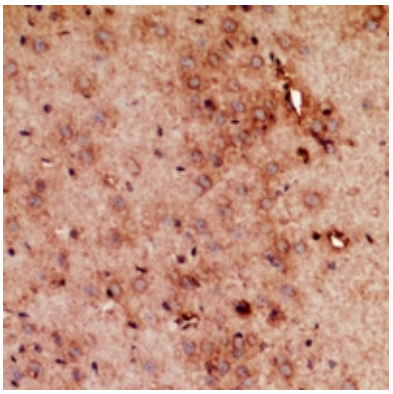
Name	RRP7A (HGNC:24286)
Function	Nucleolar protein that is involved in ribosomal RNA (rRNA) processing (PubMed:33199730). Also plays a role in primary cilia resorption, and cell cycle progression in neurogenesis and neocortex development (PubMed:33199730). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797).
Cellular Location	Nucleus, nucleolus. Cell projection, cilium. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Tissue Location	Expressed in the apical radial glial cells in the developing brain.

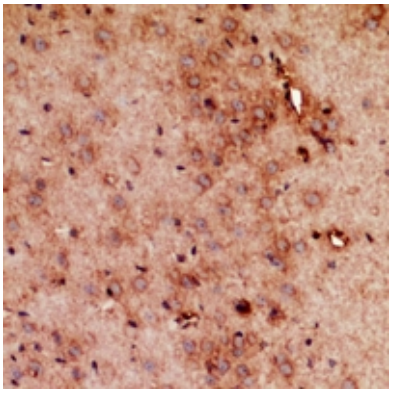
Images



Western blot analysis of RRP7A/B expression in CT26 (A), C6 (B), HEK293T (C), A549 (D), MCF7 (E) whole cell lysates. (Predicted band size: 32; 12 kD; Observed band size: 32 kD)



Immunohistochemical analysis of RRP7A/B staining in mouse brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.