

Anti-HEXO Antibody

Rabbit polyclonal antibody to HEXO

Catalog # AP61399

Product Information

Application	WB
Primary Accession	Q8IV48
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40064

Additional Information

Gene ID	90459
Other Names	3'EXO; THEX1; 3'-5' exoribonuclease 1; 3'-5' exonuclease ERI1; Eri-1 homolog; Histone mRNA 3'-end-specific exoribonuclease; Histone mRNA 3'-exonuclease 1; Protein 3'hExo; HEXO
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HEXO. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	ERI1 (HGNC:23994)
Synonyms	3'EXO, THEX1
Function	RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication (PubMed: 14536070 , PubMed: 16912046 , PubMed: 17135487 , PubMed: 37352860). A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient 3'-end histone mRNA exonuclease activity and degradation of RNA substrates (PubMed: 14536070 , PubMed: 16912046 , PubMed: 17135487). Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi) (PubMed: 14961122). Required for binding the 5'-ACCCA-3' sequence present in stem-loop structure (PubMed: 14536070 , PubMed: 16912046). Able to bind other mRNAs

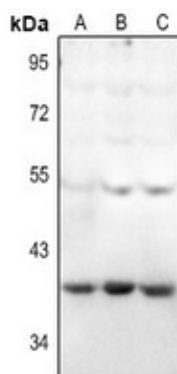
(PubMed:[14536070](#), PubMed:[16912046](#)). Required for 5.8S rRNA 3'-end processing (PubMed:[37352860](#)). Also binds to 5.8s ribosomal RNA (By similarity). Binds with high affinity to the stem- loop structure of replication-dependent histone pre-mRNAs (PubMed:[14536070](#), PubMed:[16912046](#), PubMed:[17135487](#)). In vitro, does not have sequence specificity (PubMed:[17135487](#)). In vitro, has weak DNA exonuclease activity (PubMed:[17135487](#)). In vitro, shows biphasic kinetics such that there is rapid hydrolysis of the last three unpaired RNA nucleotides in the 39 flanking sequence followed by a much slower cleavage through the stem that occurs over a longer incubation period in the order of hours (PubMed:[17135487](#)). ERI1-mediated RNA metabolism plays a key role in chondrogenesis (PubMed:[37352860](#)).

Cellular Location Cytoplasm. Nucleus. Nucleus, nucleolus

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HEXO. The exact sequence is proprietary.

Images



Western blot analysis of HEXO expression in SGC7901 (A), A549 (B), U87MG (C) whole cell lysates.

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