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KIAA1530 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56513

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q2YD98
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80591

Additional Information

Gene ID	57654
Other Names	UV-stimulated scaffold protein A, UVSSA, KIAA1530
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	UVSSA {ECO:0000303|PubMed:22466610, ECO:0000312|HGNC:HGNC:29304}
Function	Factor involved in transcription-coupled nucleotide excision repair (TC-NER), a mechanism that rapidly removes RNA polymerase II- blocking lesions from the transcribed strand of active genes (PubMed:22466610, PubMed:22466611, PubMed:22466612, PubMed:32142649, PubMed:32355176, PubMed:34526721, PubMed:38316879, PubMed:38600235, PubMed:38600236). Acts as a key adapter that promotes recruitment of factors involved in TC-NER (PubMed:22466611, PubMed:22466612, PubMed:32142649, PubMed:32355176, PubMed:34526721, PubMed:38600235, PubMed:38600236). Facilitates the ubiquitination of the elongating form of RNA polymerase II (RNA pol IIo) at DNA damage sites, thereby promoting RNA pol IIo backtracking and access by the TC-NER machinery to lesion sites (PubMed:22466611, PubMed:32142649). Also promotes stabilization of ERCC6/CSB by recruiting deubiquitinating enzyme USP7 to TC-NER complexes, preventing UV-induced degradation of ERCC6 by the proteasome (PubMed:22466611, PubMed:22466612). Mediates the recruitment of the TFIIH complex and other factors that are required for nucleotide excision repair to RNA polymerase II (PubMed:32142649,

PubMed:32355176, PubMed:34526721, PubMed:38600235, PubMed:38600236). Also required to inactivate stalled RNA polymerase II by blocking the access of TCEA1/TFIIS, thereby preventing reactivation of RNA polymerase II (PubMed:38316879). Not involved in processing oxidative damage (PubMed:22466612).

Cellular Location Chromosome. Note=Accumulates at UV DNA damage sites

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