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STK19 Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI15239

Product Information

Application	WB
Primary Accession	P49842
Other Accession	NM_032454, NP_115830
Reactivity	Human, Mouse, Rat, Pig, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28465

Additional Information

Gene ID	8859
Alias Symbol	D6S60, D6S60E, G11, HLA-RP1, MGC117388, RP1
Other Names	Serine/threonine-protein kinase 19, 2.7.11.1, Protein G11, Protein RP1, STK19, G11, RP1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-STK19 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	STK19 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WHR1 (HGNC:11398)
Function	DNA-binding protein which is required for efficient transcription-coupled nucleotide excision repair (TC-NER) (PubMed:38252411, PubMed:38890355, PubMed:39353615, PubMed:39547223, PubMed:39547228, PubMed:39547229). Acts as part of a TC-NER complex which assembles and interacts with RNA polymerase II (RNAPII) when it stalls at DNA lesions (PubMed:39547223, PubMed:39547228, PubMed:39547229). TC-NER complex subunit UVSSA binds to the GTF2H1/p62 subunit of the TFIIH transcription factor complex, tethering TFIIH to the TC-NER complex (PubMed:39547228). WHR1/STK19 then interacts with the XPD helicase subunit of TFIIH which guides TFIIH to DNA downstream of the stalled RNAPII, ensuring DNA repair

(PubMed:39353615, PubMed:39547228, PubMed:39547229). Directly interacts with RNAPII and also binds to downstream DNA (PubMed:39547229). Promotes the timely removal of DNA damage-stalled RNAPII, allowing downstream NER factors to access DNA lesions (PubMed:39547228, PubMed:39547229). Required for monoubiquitination of UVSSA (PubMed:39353615). Regulates repositioning and stabilization of UVSSA within the TC-NER complex (PubMed:39547223). Stimulates ubiquitination of RNAPII complex member RBP1 (PubMed:39547223). Also binds to RNA and regulates the expression levels of many mRNAs (PubMed:38252411, PubMed:38890355).

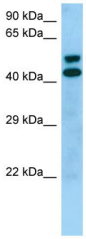
Cellular Location [Isoform 4]: Nucleus [Isoform 1]: Nucleus. Cytoplasm

Tissue Location Monocytes, hepatocytes, epithelial cells, T- and B- lymphocytes.

References

Sargent C.A.,et al.Hum. Mol. Genet. 3:481-488(1994).
Liming S.,et al.J. Biol. Chem. 269:8466-8476(1994).
Xie T.,et al.Genome Res. 13:2621-2636(2003).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images



WB Suggested Anti-STK19 Antibody Titration: 1.0 µg/ml
Positive Control: 293T Whole CellSTK19 is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells

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