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TLK2 Polyclonal Antibody

Catalog # AP72857

Product Information

Application	WB, E, IHC-P
Primary Accession	Q86UE8
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87661

Additional Information

Gene ID	11011
Other Names	TLK2; Serine/threonine-protein kinase tousled-like 2; HsHPK; PKU-alpha; Tousled-like kinase 2
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

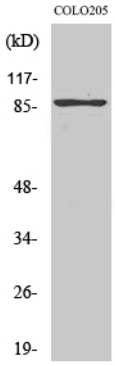
Name	TLK2 (HGNC:11842)
Function	Serine/threonine-protein kinase involved in the process of chromatin assembly and probably also DNA replication, transcription, repair, and chromosome segregation (PubMed:10523312, PubMed:11470414, PubMed:12660173, PubMed:12955071, PubMed:29955062, PubMed:33323470, PubMed:9427565). Phosphorylates the chromatin assembly factors ASF1A and ASF1B (PubMed:11470414, PubMed:20016786, PubMed:29955062, PubMed:35136069). Phosphorylation of ASF1A prevents its proteasome- mediated degradation, thereby enhancing chromatin assembly (PubMed:20016786). Negative regulator of amino acid starvation-induced autophagy (PubMed:22354037).
Cellular Location	Nucleus. Nucleus, nucleoplasm. Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton. Note=Colocalizes with the cytoplasmic intermediate filament system during the G1 phase of the cell cycle (PubMed:10455159). Present in the perinuclear region at S phase and in the nucleus at late G2 (PubMed:10455159)

Tissue Location	Detected in placenta, fetal liver, kidney, pancreas, heart and skeletal muscle (PubMed:9427565). Highly expressed in testis (PubMed:9427565, PubMed:9662073). Detected in spleen, thymus, colon, ovary, small intestine, prostate and peripheral blood leukocytes (PubMed:9662073). Almost undetectable in liver and lung (PubMed:9662073).

Background

Serine/threonine-protein kinase involved in the process of chromatin assembly and probably also DNA replication, transcription, repair, and chromosome segregation. Phosphorylates the chromatin assembly factors ASF1A AND ASF1B. Phosphorylation of ASF1A prevents its proteasome-mediated degradation, thereby enhancing chromatin assembly. Negative regulator of amino acid starvation-induced autophagy.

Images



Western Blot analysis of various cells using TLK2 Polyclonal Antibody. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

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