

WDHD1 Protein, Human (HEK293, FLAG)

Cat. No.:	HY-P701614
Synonyms:	WDHD1; WD repeat and HMG-box DNA-binding protein 1; Acidic nucleoplasmic DNA-binding protein 1; And-1
Species:	Human
Source:	HEK293
Accession:	O75717 (P2-E1129)
Gene ID:	11169
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>WDHD1, a core replisome component, assumes a pivotal role as a replication initiation factor by directly binding to the CMG complex. Its function extends beyond initiation, serving as a central hub for recruiting additional proteins to the replication fork. In its trimeric form, WDHD1 engages in interactions with various essential components of the replisome, such as the polymerase alpha catalytic subunit POLA1, MCM10, DNA2, CDC45, and the GINS2 subunit of the GINS complex. These interactions intricately link WDHD1 to the CMG helicase complex, highlighting its essential role in orchestrating the assembly and coordination of the molecular machinery involved in DNA replication. The multifaceted interactions of WDHD1 underscore its significance in facilitating the dynamic processes of DNA replication at the molecular level.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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