

Anti-CETN2 / Centrin 2 Antibody (aa1-172)

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS18521

Product Information

Application	IHC-P, E
Primary Accession	P41208
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	19738

Additional Information

Gene ID	1069
Alias Symbol	CETN2
Other Names	CETN2, Caltractin isoform 1, Centrin-2, CALT, Caltractin, isoform 1, Centrin, EF-hand protein, 2, CEN2, Centrin 2
Target/Specificity	Human CETN2 / Centrin 2
Reconstitution & Storage	Caprylic acid and ammonium sulfate precipitation
Precautions	Anti-CETN2 / Centrin 2 Antibody (aa1-172) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CETN2
Synonyms	CALT, CEN2
Function	Plays a fundamental role in microtubule organizing center structure and function. Required for centriole duplication and correct spindle formation. Has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CCP110. The XPC complex is proposed to represent the first factor bound at the sites of DNA damage and together with other core recognition factors, XPA, RPA and the TFIIH complex, is part of the pre-incision (or initial recognition) complex. The XPC complex recognizes a wide spectrum of damaged DNA characterized by distortions of the DNA helix such as single-stranded loops, mismatched bubbles or single-stranded overhangs. The orientation of XPC complex binding appears to be crucial for inducing a productive NER. XPC complex is proposed to recognize and to interact with unpaired bases on the undamaged DNA strand which is followed by

recruitment of the TFIIH complex and subsequent scanning for lesions in the opposite strand in a 5'-to-3' direction by the NER machinery. Cyclobutane pyrimidine dimers (CPDs) which are formed upon UV-induced DNA damage escape detection by the XPC complex due to a low degree of structural perturbation. Instead they are detected by the UV-DDB complex which in turn recruits and cooperates with the XPC complex in the respective DNA repair.

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Nucleus envelope. Nucleus, nuclear pore complex. Nucleus. Note=Localizes to the inner scaffold in the central region of centrioles and to the distal end of centrioles.

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