

Product datasheet

Centrin 2 overexpression 293T lysate (whole cell) ab94332

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Overview

Product name	Centrin 2 overexpression 293T lysate (whole cell)
General notes	ab94332 is a 293T cell transfected lysate in which Human Centrin 2 has been transiently over-expressed using a pCMV-Centrin 2 plasmid. The lysate is provided in 1X Sample Buffer.
Tested applications	Suitable for: WB

Properties

Mycoplasma free	Yes
Form	Liquid
Storage instructions	Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Constituents: 0.01% Bromophenol blue, 2.34% Beta mercaptoethanol, 2% Sodium lauryl sulfate, 0.79% Tris HCl, 10% Glycerol (glycerin, glycerine)
Background	<p>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 CEP110. Involved in global genome nucleotide excision repair (GG-NER) by acting as component of the XPC complex. Cooperatively with RAD23B appears to stabilize XPC. In vitro, stimulates DNA binding of the XPC:RAD23B dimer. 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. Similarity: Belongs to the centrin family. Contains 4 EF-hand domains.</p>

Applications

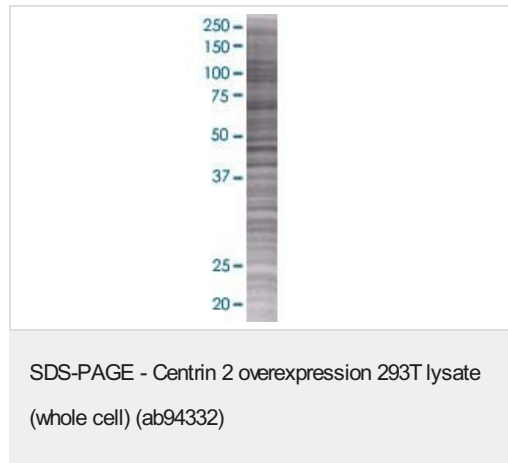
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab94332 in the following tested applications.

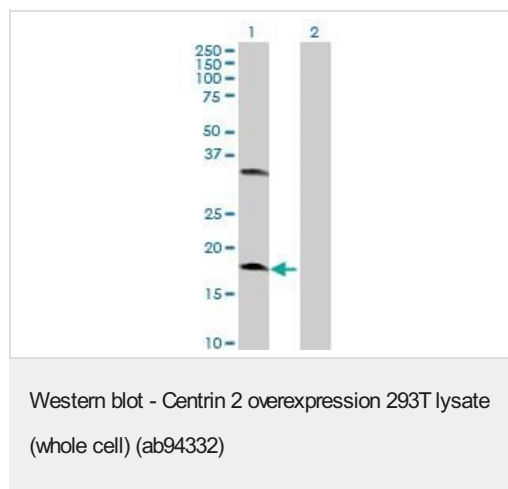
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent dilution.

Images



ab94332 at 15µg/lane on an SDS-PAGE gel.



All lanes : Anti-Centrin 2 antibody (**ab54525**) at 1/500 dilution

Lane 1 : Centrin 2 overexpression 293T lysate (whole cell) (ab94332)

Lane 2 : 293T Non Transfected Lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : Goat Anti-mouse IgG (H and L) HRP conjugated at 1/2500 dilution

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