

Product datasheet

# Anti-XPB antibody [EPR14161] - BSA and Azide free ab236128

Recombinant RabMAb

1 Image

Overview

<b>Product name</b>	Anti-XPB antibody [EPR14161] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR14161] to XPB - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Cow, Cynomolgus monkey, Orangutan 
<b>Immunogen</b>	Synthetic peptide within Human XPB aa 200-300. The exact sequence is proprietary. Database link: <a href="#">P19447</a>
<b>Positive control</b>	ICC/IF: A549 cells.
<b>General notes</b>	<p>Ab236128 is the carrier-free version of <a href="#">ab190698</a>. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our <a href="#">carrier-free formats</a> are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab236128 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMab® patents</a>.</p> <p>This product is a <a href="#">recombinant rabbit monoclonal antibody</a>.</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR14161
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab236128** in the following tested applications.

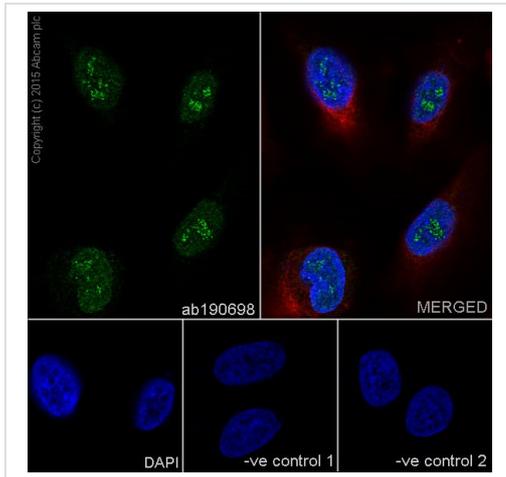
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

## Target

<b>Function</b>	ATP-dependent 3'-5' DNA helicase, component of the core-TFIIH basal transcription factor, involved in nucleotide excision repair (NER) of DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. Acts by opening DNA either around the RNA transcription start site or the DNA damage.
<b>Involvement in disease</b>	Defects in ERCC3 are the cause of xeroderma pigmentosum complementation group B (XP-B) [MIM:610651]; also known as xeroderma pigmentosum II (XP2) or XP group B (XPB) or xeroderma pigmentosum group B combined with Cockayne syndrome (XP-B/CS). Xeroderma pigmentosum is an autosomal recessive pigmentary skin disorder characterized by solar hypersensitivity of the skin, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. Some XP-B patients present features of Cockayne syndrome, including dwarfism, sensorineural deafness, microcephaly, mental retardation, pigmentary retinopathy, ataxia, decreased nerve conduction velocities. Defects in ERCC3 are a cause of trichothiodystrophy photosensitive (TTDP) [MIM:601675]. TTDP is an autosomal recessive disease characterized by sulfur-deficient brittle hair and nails, ichthyosis, mental retardation, impaired sexual development, abnormal facies and cutaneous photosensitivity correlated with a nucleotide excision repair (NER) defect. Neonates with trichothiodystrophy and ichthyosis are usually born with a collodion membrane. The severity of the ichthyosis after the membrane is shed is variable, ranging from a mild to severe lamellar ichthyotic phenotype. There are no reports of skin cancer associated with TTDP.
<b>Sequence similarities</b>	Belongs to the helicase family. RAD25/XPB subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
<b>Cellular localization</b>	Nucleus.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-XPB antibody [EPR14161] - BSA and Azide free (ab236128)

Immunocytochemical analysis of 4% Paraformaldehyde fixed A549 cells, labeling XPB using [ab190698](#) at a 1/500 dilution and Goat anti rabbit IgG (Alexa Fluor® 555) secondary antibody at a 1/200 dilution and counter-stained with Dapi.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab190698](#)).

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