abcam

Product datasheet

Anti-ERCC1 antibody ab77405

1 Image

Overview

Product name	Anti-ERCC1 antibody
Description	Goat polyclonal to ERCC1
Host species	Goat
Specificity	ab77405 is expected to recognise both reported isoforms (NP_973730.1 and NP_001974.1).
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee
Immunogen	Synthetic peptide: DPGKDKEGVPQPS-C , corresponding to N terminal amino acids 2-14 of Human ERCC1 (NP_973730.1; NP_001974.1). Run BLAST with Run BLAST with
Positive control	A431 and Kelly lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris saline, pH 7.3
Purity	Immunogen affinity purified
Purification notes	ab77405 is purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab77405** 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		
ELISA		

Application notes

Peptide ELISA: Antibody detection limit dilution 1/64000.
WB: Use at a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 32 kDa).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Structure-specific DNA repair endonuclease responsible for the 5'-incision during DNA repair.

Involvement in disease

Defects in ERCC1 are the cause of cerebro-oculo-facio-skeletal syndrome type 4 (COFS4) [MIM:610758]. COFS is a degenerative autosomal recessive disorder of prenatal onset affecting the brain, eye and spinal cord. After birth, it leads to brain atrophy, hypoplasia of the corpus callosum, hypotonia, cataracts, microcornea, optic atrophy, progressive joint contractures and growth failure. Facial dysmorphism is a constant feature. Abnormalities of the skull, eyes, limbs, heart and kidney also occur.

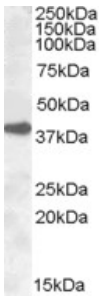
Sequence similarities

Belongs to the ERCC1/RAD10/SWI10 family.

Cellular localization

Nucleus.

Images



Western blot - ERCC1 antibody (ab77405)

Anti-ERCC1 antibody (ab77405) at 0.3 µg/ml
+ A431 lysate in RIPA buffer at 35 µg

Predicted band size: 32 kDa
Observed band size: 38 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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