

Product datasheet

Anti-ERCC1 antibody ab22193

1 图像

概述

<b>产品名称</b>	Anti-ERCC1抗体
<b>描述</b>	小鼠多克隆抗体to ERCC1
<b>宿主</b>	Mouse
<b>经测试应用</b>	<b>适用于:</b> WB
<b>种属反应性</b>	<b>与反应:</b> African green monkey, Chinese hamster
<b>免疫原</b>	Synthetic peptide: SLPQPTRKKFVIPLLEDEAPPAGAKPLFRSSRNPTTAPSVPAAPQTYAEY AIAQPPGGAGPTGPTGSEPVKGENPGQTVKTGAKSNSILVSPRQRGNPVL , corresponding to amino acids 9/108 of Chinese Hamster ERCC1 <div style="text-align: right;"> <a href="#">Run BLAST with</a>      <a href="#">Run BLAST with</a> </div>
<b>常规说明</b>	Produced from outbred CD1 mice

This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* [PubMed: 1545867](#); Chambers and Johnston [PubMed: 12910245](#); Barry and Johnston [PubMed: 9234514](#)). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>存储溶液</b>	Constituents: 50% Glycerol
<b>纯度</b>	Whole antiserum

## Primary antibody说明

This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* [PubMed: 1545867](#); Chambers and Johnston [PubMed: 12910245](#); Barry and Johnston [PubMed: 9234514](#)). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

## 克隆

多克隆

## 同种型

IgG

## 应用

Our [Abpromise guarantee](#) covers the use of **ab22193** in the following tested applications.

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

应用	Ab 评论	说明
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WB 1/1000. Predicted molecular weight: 32 kDa.

This antibody has been tested in Western blot against an *E.coli* lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

## 靶标

### 功能

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

### 疾病相关

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.

### 序列相似性

Belongs to the ERCC1/RAD10/SWI10 family.

### 细胞定位

Nucleus.

## 图片

Western blot - Anti-ERCC1 antibody (ab22193)

**All lanes** : Anti-ERCC1 antibody (ab22193)  
at 1/1000 dilution

**Lane 1** : Total protein extract from E. coli with  
~50ng to 100ng of a  
negative control fusion protein with an  
irrelevant antigen at 20 ug

**Lane 2** : Total protein extract from E. coli with  
~50ng to 500ng of the  
antigen fusion protein at 20 ug

**Secondary**

**All lanes** : Rabbit anti-mouse IgG + IgM,  
(H+L) horseradish peroxidase conjugated at  
1/5000 dilution

**Predicted band size:** 32 kDa

The molecular weight of the band on the western blot does not correspond to the predicted band size above (predicted from the molecular weight of the natural protein) because of the additional mass of the fusion and because the fusion protein only contains a partial fragment of the gene.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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