abcam

Product datasheet

# HRP Anti-p53R2 antibody [EPR8816] ab206095

KO VALIDATED Recombinant RabMAb

2 Images

## Overview

| | |
|---|---|
| **Product name** | HRP Anti-p53R2 antibody [EPR8816] |
| **Description** | HRP Rabbit monoclonal [EPR8816] to p53R2 |
| **Host species** | Rabbit |
| **Conjugation** | HRP |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Synthetic peptide corresponding to Human p53R2 (N terminal).<br>Database link: **Q7LG56** |
| **Positive control** | WB: SW480 and wildtype HAP1 whole cell lysates. |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark. |
| **Storage buffer** | pH: 7.40<br>Preservative: 0.1% Proclin 300 Solution<br>Constituents: 1% BSA, PBS, 30% Glycerol (glycerin, glycerine) |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR8816 |

| | |
|---|---|
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab206095 in the following tested applications.

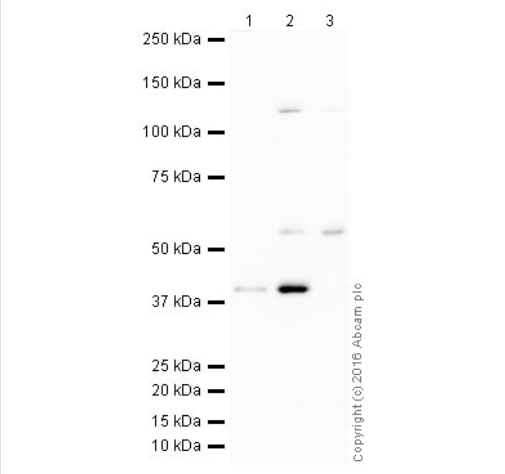
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/1000. Detects a band of approximately 40 kDa (predicted molecular weight: 40 kDa). |

## Target

| | |
|---|---|
| **Function** | Plays a pivotal role in cell survival by repairing damaged DNA in a p53/TP53-dependent manner. Supplies deoxyribonucleotides for DNA repair in cells arrested at G1 or G2. Contains an iron-tyrosyl free radical center required for catalysis. Forms an active ribonucleotide reductase (RNR) complex with RRM1 which is expressed both in resting and proliferating cells in response to DNA damage. |
| **Tissue specificity** | Widely expressed at a high level in skeletal muscle and at a weak level in thymus. Expressed in epithelial dysplasias and squamous cell carcinoma. |
| **Pathway** | Genetic information processing; DNA replication. |
| **Involvement in disease** | Defects in RRM2B are the cause of mitochondrial DNA depletion syndrome type 8A (MTDPS8A) [MIM:612075]. A disorder due to mitochondrial dysfunction characterized by various combinations of neonatal hypotonia, neurological deterioration, respiratory distress, lactic acidosis, and renal tubulopathy.<br>Defects in RRM2B are the cause of mitochondrial DNA depletion syndrome type 8B (MTDPS8B) [MIM:612075]. A disease due to mitochondrial dysfunction and characterized by ophthalmoplegia, ptosis, gastrointestinal dysmotility, cachexia, peripheral neuropathy.<br>Defects in RRM2B are the cause of progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal dominant type 5 (PEOA5) [MIM:613077]. A disorder characterized by progressive weakness of ocular muscles and levator muscle of the upper eyelid. In a minority of cases, it is associated with skeletal myopathy, which predominantly involves axial or proximal muscles and which causes abnormal fatigability and even permanent muscle weakness. Ragged-red fibers and atrophy are found on muscle biopsy. A large proportion of chronic ophthalmoplegias are associated with other symptoms, leading to a multisystemic pattern of this disease. Additional symptoms are variable, and may include cataracts, hearing loss, sensory axonal neuropathy, ataxia, depression, hypogonadism, and parkinsonism. |
| **Sequence similarities** | Belongs to the ribonucleoside diphosphate reductase small chain family. |
| **Cellular localization** | Cytoplasm. Nucleus. Translocates from cytoplasm to nucleus in response to DNA damage. |

## Images




Western blot - HRP Anti-p53R2 antibody [EPR8816] (ab206095)

**All lanes :** HRP Anti-p53R2 antibody [EPR8816] (ab206095) at 1/1000 dilution

**Lane 1 :** SW480 (Human colon adenocarcinoma cell line) Whole Cell Lysate at 10 µg
**Lane 2 :** Wild-type HAP1 cell lysate at 20 µg
**Lane 3 :** p53R2 knockout HAP1 cell lysate at 20 µg

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 40 kDa
**Observed band size:** 40 kDa

**Exposure time:** 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab206095 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.



HRP Anti-p53R2 antibody [EPR8816] (ab206095)

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors