

Nur für Forschungszwecke

# XRCC5 Monoklonaler Antikörper

Katalog-Nr.:CL488-66546



## Allgemeine Informationen

<b>Katalog-Nr.:</b> CL488-66546	<b>GenBank-Zugangsnummer:</b> BC019027	<b>Reinigungsmethode:</b> Protein-G-Reinigung
<b>Größe:</b> 100ul , Konzentration: 882 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 7520	<b>CloneNo.:</b> 2G5E7
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)	<b>Empfohlene Verdünnungen:</b> 1:50-1:500
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 732 aa, 83 kDa	<b>Anregungs-/Emissionsmaxima-Wellenlängen:</b> 493 nm / 522 nm
<b>Immunogen Katalognummer:</b> AG9512	<b>Beobachtete Masse:</b> 80-83 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> FC (Intra), IF	<b>Positivkontrollen:</b> IF : HepG2-Zellen, HeLa-Zellen
<b>Getestete Reaktivität:</b> Human, Maus, Ratte	

## Hintergrundinformationen

There are at least two pathways for eukaryotes to repair DNA double-strand breaks: homologous recombination and nonhomologous end joining(NHEJ). The core NHEJ machinery includes XRCC4, DNA Ligase IV and the DNA-dependent protein kinase complex, which consists of the DNA end-binding XRCC5/XRCC6 heterodimer and the catalytic subunit PRKDC. The heterodimer of XRCC5/XRCC6 enhanced the affinity of the catalytic subunit PRKDC to DNA by 100-fold. Once the XRCC5/6 dimer association with NAA15, it can bind to the osteocalcin promoter and activate osteocalcin expression. The XRCC5/6 dimer acts as a negative regulator of transcription when together with APEX1. Some published papers indicated that the MW of XRCC5 is 86kDa, while more papers suggested that XRCC5 is a 80kDa protein, as it was firstly introduced in publication. Thus, Ku80 and Ku86 are the same protein.

## Lagerung

**Lagerungsbedingungen:**  
Bei -20°C lagern. Vor Licht schützen. Nach dem Versand ein Jahr stabil.  
**Lagerungspuffer:**  
BS mit 50% Glycerin, 0,05% Proclin300, 0,5% BSA, pH 7,3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

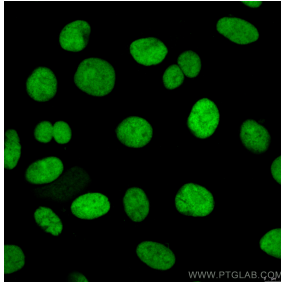
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

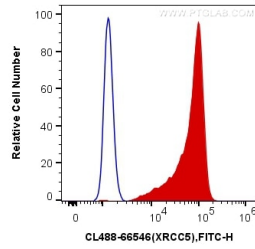
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Ausgewählte Validierungsdaten



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CL488-66546 (XRCC5 antibody) at dilution of 1:100.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human XRCC5 (CL488-66546, Clone:2G5E7) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).