

# C12orf32 (11O1) Mouse Monoclonal antibody

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Catalog # AP93893

## Product Information

Application	WB
Primary Accession	<a href="#">Q9BSD3</a>
Reactivity	Human
Clonality	Monoclonal
Calculated MW	26709

## Additional Information

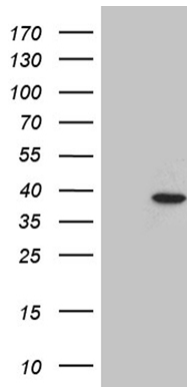
Gene ID	83695
Other Names	RAD9, HUS1, RAD1-interacting nuclear orphan protein 1, RAD9, RAD1, HUS1-interacting nuclear orphan protein, RHNO1 ( <a href="#">HGNC:28206</a> )
Dilution	WB~~1:1000
Storage Conditions	-20°C

## Protein Information

Name	RHNO1 ( <a href="#">HGNC:28206</a> )
Function	<p>Involved in microhomology-mediated end-joining (MMEJ) DNA repair by promoting recruitment of polymerase theta (POLQ) to DNA damage sites during mitosis (PubMed:<a href="#">37440612</a>). MMEJ is an alternative non-homologous end-joining (NHEJ) machinery that takes place during mitosis to repair double-strand breaks in DNA that originate in S-phase (PubMed:<a href="#">37440612</a>). Accumulates in M-phase; following phosphorylation by PLK1, interacts with POLQ, enabling its recruitment to double-strand breaks for subsequent repair (PubMed:<a href="#">37440612</a>). Also involved in the DNA damage response (DDR) signaling in response to genotoxic stresses such as ionizing radiation (IR) during the S phase (PubMed:<a href="#">21659603</a>, PubMed:<a href="#">25602520</a>). Recruited to sites of DNA damage through interaction with the 9-1-1 cell-cycle checkpoint response complex and TOPBP1 in a ATR-dependent manner (PubMed:<a href="#">21659603</a>, PubMed:<a href="#">25602520</a>). Required for the progression of the G1 to S phase transition (PubMed:<a href="#">21659603</a>). Plays a role in the stimulation of CHEK1 phosphorylation (PubMed:<a href="#">21659603</a>).</p>
Cellular Location	Nucleus. Chromosome Note=Localizes to sites of DNA damage in a H2AX-independent manner
Tissue Location	Weakly expressed in testis, prostate, ovary, thymus and small intestine (PubMed:20811708). Expressed strongly in breast cancer cells

## Images

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HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY C12orf32 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-C12orf32 (Cat# AP93893)(1:500). Positive lysates (100ug) and (20ug) can be purchased separately from biodragon.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.