

# Anti-FAM111A Antibody

Catalog # AP54108

## Product Information

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Application	WB
Primary Accession	<a href="#">Q96PZ2</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70196

## Additional Information

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Gene ID	63901
Other Names	Serine protease FAM111A; KIAA1895
Target/Specificity	Recognizes endogenous levels of FAM111A protein.
Dilution	WB~~1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	FAM111A {ECO:0000303   PubMed:23093934, ECO:0000312   HGNC:HGNC:24725}
Function	<p>Single-stranded DNA-binding serine protease that mediates the proteolytic cleavage of covalent DNA-protein cross-links (DPCs) during DNA synthesis, thereby playing a key role in maintaining genomic integrity (PubMed:<a href="#">32165630</a>). DPCs are highly toxic DNA lesions that interfere with essential chromatin transactions, such as replication and transcription, and which are induced by reactive agents, such as UV light or formaldehyde (PubMed:<a href="#">32165630</a>). Protects replication fork from stalling by removing DPCs, such as covalently trapped topoisomerase 1 (TOP1) adducts on DNA lesion, or poly(ADP-ribose) polymerase 1 (PARP1)- DNA complexes trapped by PARP inhibitors (PubMed:<a href="#">32165630</a>). Required for PCNA loading on replication sites (PubMed:<a href="#">24561620</a>). Promotes S- phase entry and DNA synthesis (PubMed:<a href="#">24561620</a>). Also acts as a restriction factor for some viruses including SV40 polyomavirus and vaccinia virus (PubMed:<a href="#">23093934</a>, PubMed:<a href="#">37607234</a>). Mechanistically, affects nuclear barrier function during viral replication by mediating the disruption of the nuclear pore complex (NPC) via its protease activity (PubMed:<a href="#">33369867</a>, PubMed:<a href="#">37607234</a>). In turn,</p>

interacts with vaccinia virus DNA-binding protein OPG079 in the cytoplasm and promotes its degradation without the need of its protease activity but through autophagy (PubMed:[37607234](#)).

#### Cellular Location

Nucleus. Chromosome. Cytoplasm. Note=Mainly localizes to nucleus; colocalizes with PCNA on replication sites

## Background

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Rabbit polyclonal antibody to FAM111A

## Images

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Image not found : 202102/CPA6288\_WB.jpg

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