# Rabbit MUM1 Polyclonal Antibody | anti-MUM1 antibody

MUM1 Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA31214** | **Rabbit** | **Human, Mouse, Rat, MonkeyPredicted Reactivity: Pig(100%), Bovine(100%), Horse(88%), Sheep(100%)** | **ELISA** |

## PRODUCT SYNONYMS

MUM1; Polyclonal Antibody; MUM1 Antibody; EXPAND1; FLJ14868; FLJ22283; HSPC211; Melanoma associated antigen (mutated) 1; Melanoma ubiquitous mutated protein; MGC131891; MGC163315; MUM 1; MUM-1; MUM1_HUMAN; Mutated melanoma associated antigen 1; Mutated melanoma-associated antigen 1; Protein expandere; PWWP domain containing protein MUM1; PWWP domain-containing protein MUM1; anti-MUM1 antibody

## PRODUCT SPECIFICATIONS

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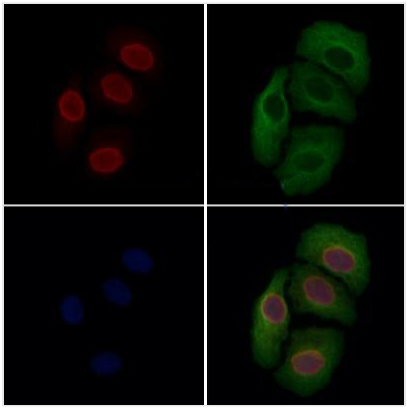
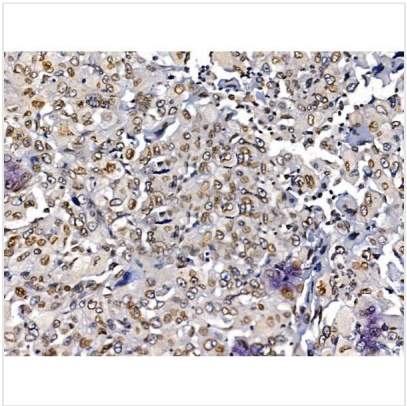
|---|---|
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat, Monkey<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(88%), Sheep(100%) |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Specificity** | MUM1 Antibody detects endogenous levels of total MUM1. |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific). |
| **Form/Format** | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol |
| **Concentration** | 1mg/ml (varies by lot) |
| **Sequence Length** | 710 |
| **Applicable Applications for anti-MUM1 antibody** | ELISA |
| **Application Notes** | IF: 1:100-1:500<br>ICC: 1:100-1:500<br>WB: 1:500-1:2000<br>IHC: 1:50-1:200<br>ELISA(peptide): 1:20,000-1:40,000 |
| **Immunogen** | A synthesized peptide derived from human MUM1, corresponding to a region within C-terminal amino acids. |
| **Fragment** | Fab fragment |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |

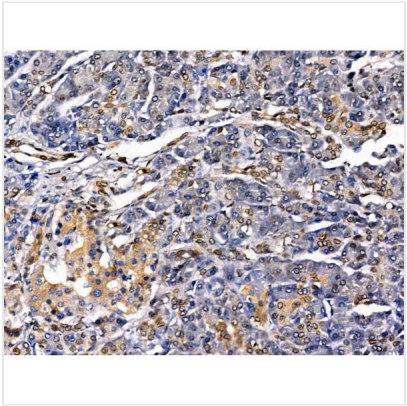
## IMAGES



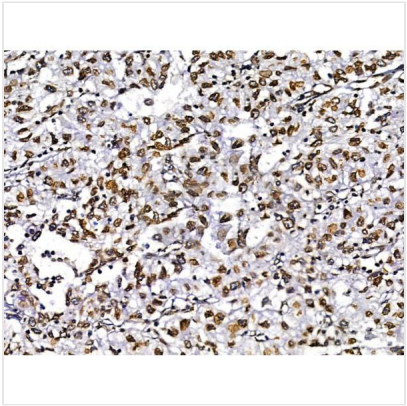
**IF (Immunofluorescence)**
AAA31214 staining Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25Â°C. Samples were then incubated with primary Ab(AAA31214 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37Â°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



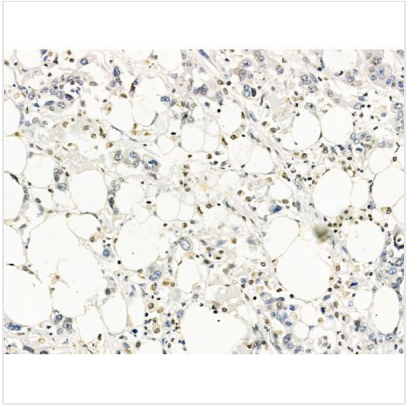
**IHC (Immunohistochemistry-Paraffin)**
AAA31214 at 1/100 staining Human lung cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistchemistry-Paraffin)**
AAA31214 at 1/100 staining Human pancreatic cancer and adjacent nomal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry-Paraffin)**
AAA31214 at 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry-Paraffin)**
AAA31214 at 1/100 staining Human gastric cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

**IHC (Immunohistochemistry-Paraffin)**
AAA31214 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-MUM1 antibody** | Function: Involved in the DNA damage response pathway by contributing to the maintenance of chromatin architecture. Recruited to the vicinity of DNA breaks by TP53BP1 and plays an accessory role to facilitate damage-induced chromatin changes and promoting chromatin relaxation. Required for efficient DNA repair and cell survival following DNA damage.<br><br>Subcellular Location: Nucleus. Note: Recruited to DNA damage sites via its interaction with the BRCT domain of TP53BP1.<br><br>Subunit Structure: Interacts with TP53BP1 (via BRCT domain); the interaction is not dependent on its phosphorylation status. Binds nucleosomes. Interacts with trimethylated 'Lys-36' of histone H3 (H3K36me3) (in vitro).<br><br>Similarity: The PWWP domain mediates the interaction with nucleosomes.Belongs to the PWWP3A family. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 259016340 |
| **NCBI GeneID** | 84939 |
| **UniProt Accession #** | Q2TAK8 |
| **Molecular Weight** | Observed Molecular Weight: (Observed)78kD.<br>Predicted Molecular Weight: (Calculated)79kDa. |
| **NCBI Official Full Name** | PWWP domain-containing DNA repair factor 3A |
| **NCBI Official Synonym Full Names** | PWWP domain containing 3A, DNA repair factor |
| **NCBI Official Symbol** | PWWP3A |
| **NCBI Official Synonym Symbols** | MUM1; MUM-1; EXPAND1; HSPC211 |
| **NCBI Protein Information** | PWWP domain-containing DNA repair factor 3A |
| **UniProt Protein Name** | PWWP domain-containing protein MUM1 |
| **UniProt Gene Name** | **MUM1** |
| **UniProt Synonym Gene Names** | EXPAND1; MUM-1 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/mum1-antibody-elisa/31214