

Rabbit HUS1 Polyclonal Antibody | anti-HUS1 antibody

HUS1 Antibody

CATALOG # AAA327027	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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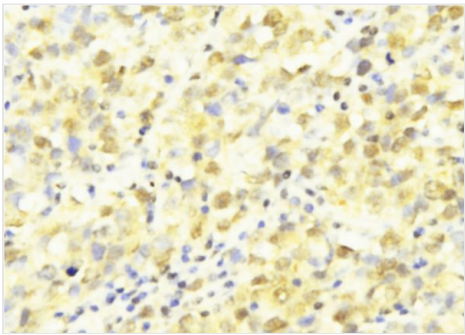
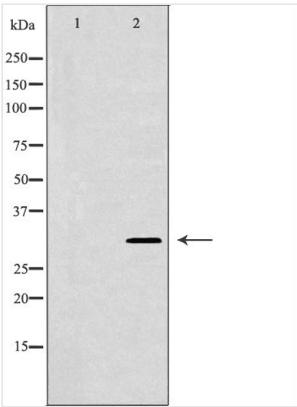
PRODUCT SYNONYMS

HUS1; Polyclonal Antibody; HUS1 Antibody; Checkpoint protein HUS1; hHUS1; HUS1 (S. pombe) checkpoint homolog; Hus1; HUS1 checkpoint homolog (S. pombe); HUS1 Checkpoint Protein; HUS1 protein; HUS1+-like protein; HUS1_HUMAN; Hydroxyurea-sensitive 1; S. pombe; homolog of; anti-HUS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HUS1 antibody detects endogenous levels of total HUS1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	280
Applicable Applications for anti-HUS1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HUS1
Subcellular Location	Nucleus. Cytoplasm. In discrete nuclear foci upon DNA damage. According to PubMed:14500360, localized also in the cytoplasm. DNA damage induces its nuclear translocation. Shuttles between the nucleus and the cytoplasm.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Chicken
Similarity	Chicken (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327027 at 1/100 staining Human breast cancer 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of 293T whole cell lysates, using HUS1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HUS1 antibody

Description: The protein encoded by this gene is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex that is involved in the cell cycle arrest in response to DNA damage. This protein forms a heterotrimeric complex with checkpoint proteins RAD9 and RAD1. In response to DNA damage, the trimeric complex interacts with another protein complex consisting of checkpoint protein RAD17 and four small subunits of the replication factor C (RFC), which loads the combined complex onto the chromatin. The DNA damage induced chromatin binding has been shown to depend on the activation of the checkpoint kinase ATM, and is thought to be an early checkpoint signaling event. Alternative splicing results in multiple transcript variants.

Function: Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase.

Subunit Structure: Component of the toroidal 9-1-1 (RAD9-RAD1-HUS1) complex, composed of RAD9A, RAD1 and HUS1. The 9-1-1 complex associates with LIG1, POLB, FEN1, RAD17, HDAC1, RPA1 and RPA2. The 9-1-1 complex associates with the RAD17-RFC complex. HUS1 interacts with POLB, HDAC1, FEN1, PCNA, RAD1, RAD9A and RAD9B. HUS1 does not interact with RAD17. Interacts with DNAJC7.

Similarity: Belongs to the HUS1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758576
NCBI GeneID	3364
NCBI Accession #	NP_004498.1
NCBI GenBank Nucleotide #	NM_004507.3
UniProt Accession #	O60921; B4DFI9
Molecular Weight	Observed: 31 kDa Predicted: 32 kDa
NCBI Official Full Name	checkpoint protein HUS1 isoform 1
NCBI Official Synonym Full Names	HUS1 checkpoint clamp component
NCBI Official Symbol	HUS1
NCBI Official Synonym Symbols	hHUS1

NCBI Protein Information	checkpoint protein HUS1
UniProt Protein Name	Checkpoint protein HUS1
UniProt Gene Name	HUS1
UniProt Synonym Gene Names	hHUS1

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://stage.aaabiotech.com/polyclonal/hus1-antibody-immunohistochemistry-western-blot-elisa/327027>