

ISG20 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16602c**Specification**

ISG20 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q96AZ6](#)**ISG20 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3669**Other Names**

Interferon-stimulated gene 20 kDa protein, Estrogen-regulated transcript 45 protein, Promyelocytic leukemia nuclear body-associated protein ISG20, ISG20, HEM45

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ISG20 Antibody (Center) Blocking Peptide - Protein Information**Name** ISG20**Synonyms** HEM45**Function**

Interferon-induced antiviral exoribonuclease that acts mainly on single-stranded RNA (PubMed:11401564, PubMed:12594219, PubMed:16033969). Exhibits antiviral activity against RNA viruses including hepatitis C virus (HCV), hepatitis A virus (HAV) and yellow fever virus (YFV) (PubMed:16514659, PubMed:21036379). Inhibition of several viruses such as chikungunya virus (CHIKV) does not involve the degradation of viral RNAs, but rather the inhibition of translation of viral proteins (By similarity). Exerts a translational control over a large panel of non-self RNA substrates while sparing endogenous transcripts. This activity correlates with the protein's ability to localize in cytoplasmic processing bodies (PubMed:31600344). May also act as master regulator of over hundred interferon stimulated genes leading to viral genome translation inhibition (By similarity). May play additional roles in the maturation of snRNAs and rRNAs, and in ribosome biogenesis (PubMed:16514659).

Cellular Location

Nucleus. Nucleus, nucleolus. Cytoplasm. Nucleus, Cajal body. Cytoplasm, P-body

Tissue Location

Highly expressed in peripheral blood leukocytes, spleen, thymus, colon and lung. Up regulated by E2 in estrogen receptor-positive breast cancer lines.

ISG20 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ISG20 Antibody (Center) Blocking Peptide - Images**ISG20 Antibody (Center) Blocking Peptide - Background**

Exonuclease with specificity for single-stranded RNA and, to a lesser extent for DNA. Degrades RNA at a rate that is approximately 35-fold higher than its rate for single-stranded DNA. Involved in the antiviral function of IFN against RNA viruses.

ISG20 Antibody (Center) Blocking Peptide - References

Hao, Y., et al. J. Huazhong Univ. Sci. Technol. Med. Sci. 28(1):11-13(2008)Horio, T., et al. FEBS Lett. 577 (1-2), 111-116 (2004) :Espert, L., et al. J. Biol. Chem. 278(18):16151-16158(2003)Izmailova, E., et al. Nat. Med. 9(2):191-197(2003)Nguyen, L.H., et al. Biochemistry 40(24):7174-7179(2001)