

HERC3 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant HERC3.****Catalog # AT2351a****Specification**

HERC3 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	Q15034
Other Accession	NM_014606
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	117188

HERC3 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 8916**Other Names**

Probable E3 ubiquitin-protein ligase HERC3, 632-, HECT domain and RCC1-like domain-containing protein 3, HERC3, KIAA0032

Target/Specificity

HERC3 (NP_055421, 1 a.a. ~ 109 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

HERC3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

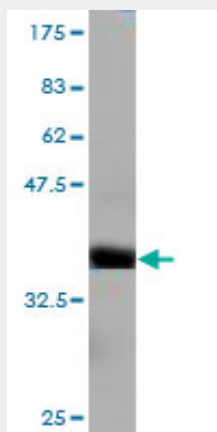
HERC3 Antibody (monoclonal) (M01) - Protocols

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

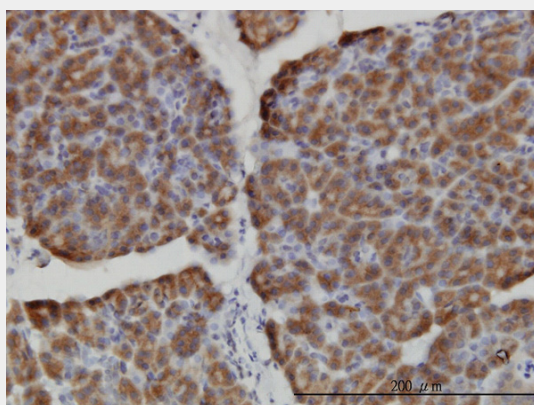
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

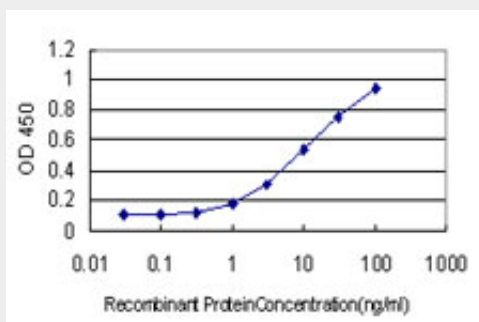
HERC3 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .



Immunoperoxidase of monoclonal antibody to HERC3 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged HERC3 is approximately 0.1ng/ml as a capture antibody.

HERC3 Antibody (monoclonal) (M01) - Background

HERC3 belongs to the HERC family of ubiquitin ligases, all of which contain a HECT domain and at least 1 RCC1 (MIM 179710)-like domain (RLD). The 350-amino acid HECT domain is predicted to catalyze the formation of a thioester with ubiquitin before transferring it to a substrate, and the RLD is predicted to act as a guanine nucleotide exchange factor for small G proteins (Hochrainer et al., 2005 [PubMed 15676274]).

HERC3 Antibody (monoclonal) (M01) - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Highly homologous HERC proteins localize to endosomes and exhibit specific interactions with hPLIC and Nm23B. Hochrainer K, et al. Cell Mol Life Sci, 2008 Jul. PMID 18535780. The human HERC family of ubiquitin ligases: novel members, genomic organization, expression profiling, and evolutionary aspects. Hochrainer K, et al. Genomics, 2005 Feb. PMID 15676274. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932. HERC3 binding to and regulation by ubiquitin. Cruz C, et al. FEBS Lett, 2001 Jan 12. PMID 11163799.