

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MERIT40 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MERIT40 Asn182-Val329 Accession # Q9NWW8
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

MERIT40 (MEdiator of Rap80 Interactions and Targeting subunit of 40 kDa; also NBA1 and c19orf62 and HSPC142) is a 40 kDa member of the MERIT40 family of proteins. It is ubiquitously expressed, and participates in the DNA damage response. At sites of double strand breaks, histones are phosphorylated, ubiquitinated, and deubiquitinated, with repairs performed by a sequentially formed complex that contains BRCA1, Rap80 and BRE. MERIT40 apparently serves as a scaffold protein that maintains the integrity of the complex. Human MERIT40 is 329 amino acids (aa) in length. It contains one VWF-A domain (aa 95-298) and six utilized Ser/Thr phosphorylation sites. There are three potential splice variants. One shows a 13 aa substitution for aa 234-329, a second possesses a 105 aa substitution for aa 263-329, while a third shows a 37 aa substitution for aa 1-115, coupled to a deletion of aa 263-329. Over aa 182-329, human MERIT40 shares 95% aa identity with mouse MERIT40.

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