# Human MERIT40 Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6604U
100 µg

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human MERIT40 in Western blots. |
| **Source** | Polyclonal Sheep IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human MERIT40<br>Asn182-Val329<br>Accession # Q9NWV8 |
| **Conjugate** | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.*

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

## PREPARATION AND STORAGE

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| **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.

## PRODUCT SPECIFIC NOTICES





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