# Human STAT2 Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat $IgG_{2A}$ Clone # 967425

Catalog Number: FAB16662R

100 µg

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human STAT2 in direct ELISAs and Western blots. |
| **Source** | Monoclonal Rat $IgG_{2A}$ Clone # 967425 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant human STAT2<br>Gln679-Phe851<br>Accession # P52630 |
| **Conjugate** | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 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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| **Knockout Validated** | Optimal dilution of this antibody should be experimentally determined. |
| **Western Blot** | 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

Signal transducer and activator of transcription 2 (STAT2) is a member of the transcription factor STAT family with an apparent M.W. of 113 kDa in SDS-PAGE gels. Human STAT2 is 851 amino acids (aa) in length and contains one SH2 domain (aa 572-667). Splicing variants produce two isoforms for human STAT2. The short isoform has a 32 aa substitution and a 199 aa deletion corresponding to aa 621-652 and aa 653-851 in the long isoform, respectively. Human STAT2 shares 73% and 65% aa sequence identity with rat and mouse STAT2, in that order. STAT2 functions as a signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-α and IFN-β), and it is also required for myogenic differentiation.

## PRODUCT SPECIFIC NOTICES

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