

Monoclonal Antibody to Tyk2

Cat. #: Mab-606083

Description:

Tyk2 (tyrosine kinase 2), with 1187-amino acid protein (about 131kDa), belongs to the family of non-receptor janus tyrosine kinases, which also includes Jak1, Jak2, and Jak3. Kinases of the Jak family regulate a spectrum of cellular functions downstream of activated cytokine receptors in the lympho-hematopoietic system. Tyk2 is activated by a variety of cytokines: IFN-alpha, IFN-beta, IL-6, IL-10, IL-12, and IL-13 and promotes IFN-gamma production by Th1-type CD4 cells. Tyk2 can be viewed as a dual-function Jak, mediating both pro-inflammatory and anti-inflammatory cytokine responses. Tyk2 is also an important regulator of lymphoid tumor surveillance.

Immunogen/Specificity:

Ni-NTA purified truncated recombinant Tyk2 expressed in E. Coli strain BL21 (DE3)

Applications :

Western Blot: 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

Formulation

Crude ascites.

Reference:

1. Michael H. Shaw, Gordon J. Freeman, Mark F. Scott
J. Immunol., Jun 2006; 176: 7263-7271
2. Yohei Seto, Hiroshi Nakajima, Akira Suto
J. Immunol., Jan 2003; 170: 1077
3. Dagmar Stoiber, Boris Kovacic, Christian Schuster
J. Clin. Invest., Dec 2004; 114: 1650-1658

Clone Number: 8G8E9,8G9H5

Isotype: IgG1

Species: Human

Storage and Stability: stored at -20 C

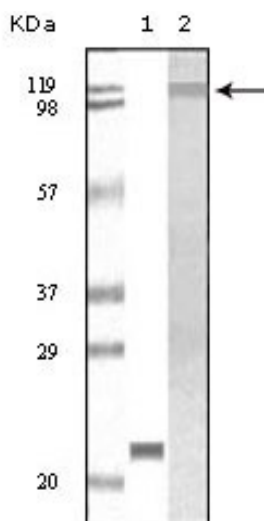


Figure 1: Western blot analysis using anti-Human Tyk2 monoclonal antibody against truncated Tyk2 recombinant protein(1) and Jurkat cell lysate(2).