

STAT4 monoclonal antibody (M01), clone 1C2-1C12

ENZ-006775-M01

Specification

Product Description: Mouse monoclonal antibody raised against a full length recombinant STAT4.

Immunogen: STAT4 (AAH31212, 1 a.a. ~ 749 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Immunogen Sequence (without GST):
MSQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIENQDWEAASNNE
TMATILLQNLLIQLDEQLGRVSKEKNLLLIHNLKRIRKVLQGKFHGNPMH
VAVVISNCLREERRILAAANMPVQGPLEKSLQSSSVSERQRNVEHKVAAI
KNSVQMTEQDTKYLEDLQDEFDYRYKTIQTMQSDKNSAMVNQEVLTLQE
MLNSLDFKRKEALSKMTQIIHETDLLMNTMLIEELQDWKRRQQIACIGGP
LHNGL

Cross Reactivity: Human

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.2

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

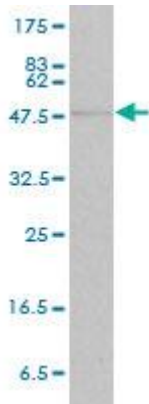
Quality Control Testing: Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (108.39 KDa) .

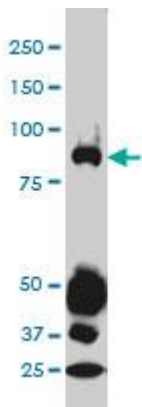
Applications

Western Blot (Tissue lysate)



STAT4 monoclonal antibody (M01), clone 1C2-1C12. Western Blot analysis of STAT4 expression in human liver.

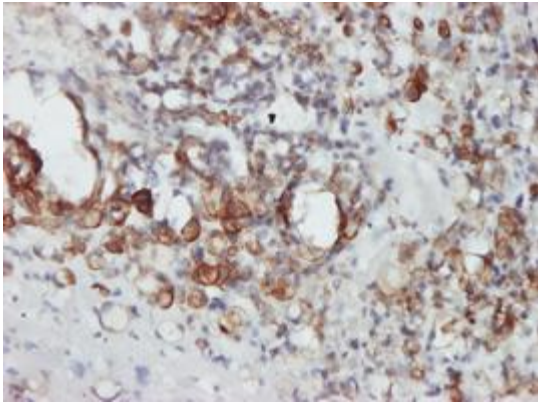
Western Blot (Cell lysate)



STAT4 monoclonal antibody (M01), clone 1C2-1C12 Western Blot analysis of STAT4 expression in A-549 (Cat # L025V1).

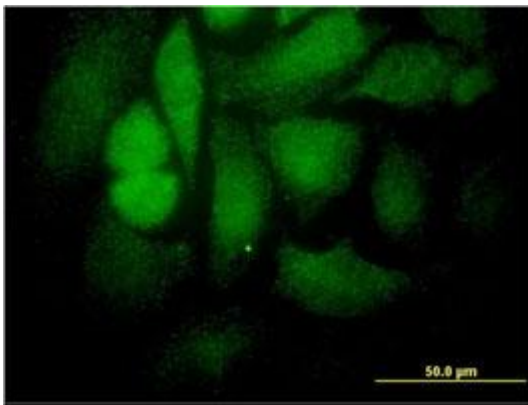
Western Blot (Recombinant protein)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



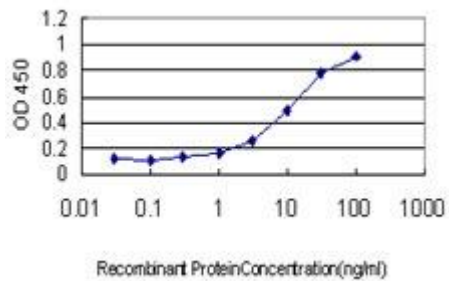
Immunoperoxidase of monoclonal antibody to STAT4 on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration 2 ug/ml]

Immunofluorescence



Immunofluorescence of monoclonal antibody to STAT4 on HeLa cell. [antibody concentration 10 ug/ml]

Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged STAT4 is approximately 0.3ng/ml as a capture antibody.

ELISA

Gene Information

Entrez GeneID: [6775](#)

GeneBank [BC031212](#)

Accession#:

**Protein
Accession#:** [AAH31212](#)

Gene Name: STAT4

Gene Alias: SLEB11

**Gene
Description:** signal transducer and activator of transcription 4

Omim ID: [152700](#), [180300](#), [600558](#)

Gene Ontology: [Hyperlink](#)

**Gene
Summary:** The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells.

**Other
Designations:** OTTHUMP00000163553