

Product Information

Anti-STAT1 (ab1)
antibody produced in chicken,
affinity isolated antibody

Catalog Number **GW22758**

Formerly listed as GenWay Catalog Number 15-288-22758,
Signal transducer and activator of transcription 1-alpha/beta
Antibody.

Storage Temperature Store at -20°C

Synonyms: Signal transducer and activator of transcription 1
isoform beta, Transcription factor ISGF-3 components p91/
p84

Product Description

Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors. Jak kinases (TYK2 and JAK1) are activated. leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize. associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor. that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes. which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma). STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF). migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes. inducing a cellular antiviral state.

NCBI Accession number: NP_644671.1

Swiss Prot Accession number: P42224

Gene Information: Human .. STAT1 (6772)

Immunogen: Recombinant protein Signal transducer and activator of transcription 1 isoform beta

Immunogen Sequence: GI # 21536301, sequence 51 - 235

The product is a clear, colorless solution in phosphate buffered saline, pH 7.2, containing 0.02% sodium azide.

Species Reactivity: Human

Tested Applications: WB

Recommended Dilutions: Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining 1:200.

Note: Optimal concentrations and conditions for each application should be determined by the user.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at $2-8^{\circ}\text{C}$ for up to one week. For extended storage, store in -20°C freezer in working aliquots. Repeated freezing and thawing, or storage in "frostfree" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

LPG,MAM12/09-1

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.