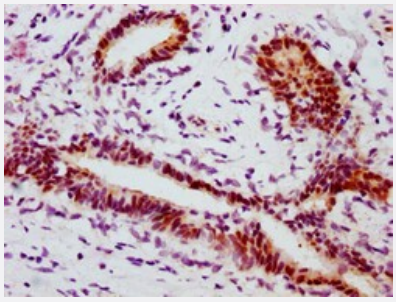
RecomAb™ Sm Size

STAT1 (phospho S727) recombinant monoclonal antibody, clone 2H10

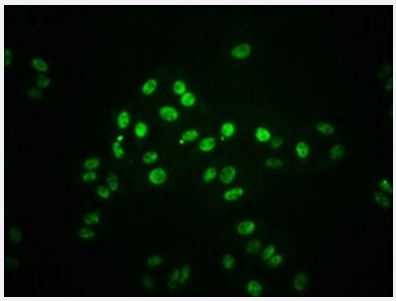
Catalog # RAB08072 Size 50 uL

Applications



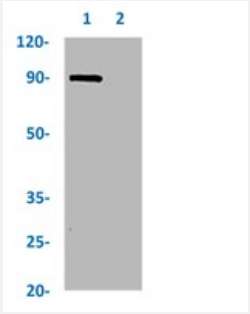
Immunohistochemistry

Immunohistochemical staining of human breast cancer with STAT1 (phospho S727) recombinant monoclonal antibody (diluated at 1:100).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with STAT1 (phospho S727) recombinant monoclonal antibody (diluated at 1:66). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Western Blot

Western blot analysis of
Lane 1: HepG2 whole cell lysate (treated with Calyculin A 100 nM/60 mins) and
Lane 2: HepG2 whole cell lysate (not treated) with STAT1 (phospho S727) recombinant monoclonal antibody.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human STAT1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S727 of human STAT1.
Theoretical MW (kDa)	Calculated MW: 87 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry

  Immunohistochemical staining of human breast cancer with STAT1 (phospho S727) recombinant monoclonal antibody (diluated at 1:100).

- Immunofluorescence

  Immunofluorescent staining of HepG2 cells with STAT1 (phospho S727) recombinant monoclonal antibody (diluated at 1:66). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

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- Western Blot

  Western blot analysis of
  Lane 1: HepG2 whole cell lysate (treated with Calyculin A 100 nM/60 mins) and
  Lane 2: HepG2 whole cell lysate (not treated) with STAT1 (phospho S727) recombinant monoclonal antibody.

Gene Info — STAT1

Entrez GeneID	6772
Protein Accession#	P42224
Gene Name	STAT1
Gene Alias	DKFZp686B04100, ISGF-3, STAT91
Gene Description	signal transducer and activator of transcription 1, 91kDa
Omim ID	209950 600555
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the STAT protein family. In response to cytokine s and growth factors, STAT family members are phosphorylated by the receptor associated kinas es, and then form homo- or heterodimers that translocate to the cell nucleus where they act as tran scription activators. This protein can be activated by various ligands including interferon-alpha, int erferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [pro vided by RefSeq
Other Designations	OTTHUMP00000165047|signal transducer and activator of transcription 1|signal transducer and activator of transcription-1|transcription factor ISGF-3 components p91/p84

Pathway

- Chemokine signaling pathway
- Jak-STAT signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Toll-like receptor signaling pathway

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Disease

- Arthritis
- Asthma
- Birth Weight
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Campylobacter Infections
- Carcinoma
- Cardiovascular Diseases
- Chronic Disease
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glomerulonephritis
- Hepatitis B
- Hepatitis C
- Hypersensitivity
- Infant
- Leukemia
- Liver Cirrhosis

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- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Neutropenia
- Osteoporosis
- Ovarian Neoplasms
- Papillomavirus Infections
- Proteinuria
- Pulmonary Disease
- Respiratory Syncytial Virus Infections
- Salmonella Infections
- Thrombocytopenia
- Thyroid Neoplasms
- Tobacco Use Disorder
- Tuberculosis
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Viremia
- Werner syndrome

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