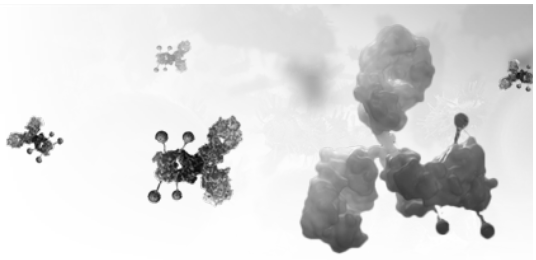

Mouse anti-Human ISGF3γ monoclonal antibody, clone 7/JTHG4γ (CABT-B9222)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human ISGF3γ (p48) aa.126-351
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	7/JTHG4γ
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; IHC
Format	Liquid
Concentration	250 μg/ml
Size	50 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	ISGF3γ is a nuclear DNA-binding protein. ISGF3 (Interferon Stimulated Gene Factor-3) is the

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primary transcription activator induced by the binding of interferon α (IFNα) to cell surface receptors. The functional ISGF3 is a complex of four polypeptides of 113 kDa (Stat2), 91 kDa (Stat1α), 84 kDa (Stat1β), and 48 kDa. The first three polypeptides (also known as ISGF3γ) each contain SH2 and SH3 domains. In response to either IFNα, IFNγ, EGF, PDGF, or CSF-1 binding their respective receptors, the cytoplasmic ISGF3α subunits are tyrosine-phosphorylated and translocated to the nucleus where they form an active complex with the 48 kDa protein (ISGF3γ). This complex is responsible for modulating the transcription of interferon-stimulated genes (ISGs). Activated ISGF3α stabilizes ISGF3γ-DNA interactions. This results in a ternary protein-DNA complex with a 25-fold greater stability than ISGF3γ-DNA. Thus, growth factors and cytokines activate a common signal transduction pathway that leads to the phosphorylation and nuclear translocation of a group of latent cytoplasmic transcription factors.

Keywords IRF9; interferon regulatory factor 9; p48; IRF-9; ISGF3; ISGF3G; ISGF-3 gamma; ISGF3 p48 subunit; interferon-stimulated gene factor 3 gamma; transcriptional regulator ISGF3 subunit gamma

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