

**IFIT1 (D2X9Z) Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IHC-Bond, IHC-P, FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 56	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P09914	<b>Entrez-Gene Id:</b> 3434
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
IHC Leica Bond  
Immunohistochemistry (Paraffin)  
Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:1000  
1:100  
1:400 - 1:1600  
1:800 - 1:3200  
1:50 - 1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

For a carrier free (BSA and azide free) version of this product see product #56086.

**Specificity/Sensitivity**

IFIT1 (D2X9Z) Rabbit mAb recognizes endogenous levels of total IFIT1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala194 of human IFIT1 protein.

**Background**

IFIT1 (interferon-induced protein with tetratricopeptide repeats 1) belongs to the IFIT family of proteins, which consists of four members in humans (IFIT1, IFIT2, IFIT3, and IFIT5) and three members in mice (IFIT1, IFIT2, and IFIT3) (1). IFIT1 expression is induced by type I interferons resulting from viral infection (2). IFIT1 is an antiviral protein that directly binds viral RNA that has a 5' triphosphate group (PPP-RNA) (2). In humans, the viral PPP-RNA bound IFIT1 forms a complex with IFIT2 and IFIT3 to sequester the viral PPP-RNA and prevent replication (2). IFIT1 has also been shown to inhibit translation by binding to the eukaryotic initiation factor 3 (eIF3) (3).

**Background References**

1. Ablasser, A. and Hornung, V. (2011) *Nat Immunol* 12, 588-90.
2. Pichlmair, A. et al. (2011) *Nat Immunol* 12, 624-30.
3. Guo, J. et al. (2000) *EMBO J* 19, 6891-9.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key**

**H:** Human

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