

#14769 Store at -20C

IFIT1 (D2X9Z) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-Bond, IHC-P, FC-FP	H	Endogenous	56	Rabbit IgG	#P09914	3434

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

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

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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