

Store at
-20°C

IRF Family Antibody Sampler Kit



#57103

1 Kit
(9 x 20 µl)Support: +1-978-867-2388 (U.S.)
www.cellsignal.com/supportOrders: 877-616-2355 (U.S.)
orders@cellsignal.com

New 01/20

For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype/Source
IRF-1 (D5E4) XP® Rabbit mAb	8478	20 µl	45-48 kDa	Rabbit IgG
IRF-2 Antibody	4943	20 µl	45 kDa	Rabbit
IRF-3 (D6I4C) XP® Rabbit mAb	11904	20 µl	50-55 kDa	Rabbit IgG
IRF-4 (D9P5H) Rabbit mAb	15106	20 µl	51 kDa	Rabbit IgG
IRF-5 Antibody	20261	20 µl	60 kDa	Rabbit
IRF-6 Antibody	6948	20 µl	58, 60 kDa	Rabbit
IRF-7 (D2A1J) Rabbit mAb	13014	20 µl	65 kDa	Rabbit IgG
IRF-8 (D20D8) Rabbit mAb	5628	20 µl	50 kDa	Rabbit IgG
IRF-9 (D2T8M) Rabbit mAb	76684	20 µl	48 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions, and additional application protocols.

Description: The IRF Family Antibody Sampler Kit contains reagents to examine the total protein levels of various IRF isoforms. The kit contains enough primary and secondary antibodies to perform two western blot experiments with each primary antibody.

Background: Interferon regulatory factors (IRFs) comprise a family of transcription factors that function within the Jak/Stat pathway to regulate interferon (IFN) and IFN-inducible gene expression in response to viral infection (1). IRFs play an important role in pathogen defense, autoimmunity, lymphocyte development, cell growth, and susceptibility to transformation. The IRF family includes nine members: IRF-1, IRF-2, IRF-9/ISGF3γ, IRF-3, IRF-4 (Pip/LSIRF/ICSAT), IRF-5, IRF-6, IRF-7, and IRF-8/ICSBP. All IRF proteins share homology in their amino-terminal DNA-binding domains. IRF family members regulate transcription through interactions with proteins that share similar DNA-binding motifs, such as IFN-stimulated response elements (ISRE), IFN consensus sequences (ICS), and IFN regulatory elements (IRF-E) (2).

Specificity/Sensitivity: Each antibody in the IRF Family Antibody Sampler Kit detects endogenous levels of its target protein. IRF-8 (D20D8) Rabbit mAb also detects an unknown background band at 80 kDa in some cell lines. IRF-9 (D2T8M) Rabbit mAb cross-reacts with an unidentified protein at 95 kDa.

Source/Purification: Monoclonal antibody is produced by immunizing animals with synthetic peptides corresponding to residues surrounding Pro261 of human IRF-1, Pro115 of human IRF-7, and Gly65 of human IRF-8, or recombinant human IRF-3, mouse IRF-4, and human IRF-9 proteins. Polyclonal antibodies are produced by immunizing animals with synthetic peptides corresponding to residues surrounding Asp327 of human IRF-2, Gly121 of human IRF-6, and near the carboxy terminus of human IRF-5. Antibodies were purified by affinity chromatography.

Storage: Polyclonal antibodies are supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol, and monoclonal antibodies also contain less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibodies.*

Please visit www.cellsignal.com for validation data and a complete listing of recommended companion products.

Background References:

- (1) Taniguchi, T. et al. (2001) *Annu Rev Immunol* 19, 623-55.
- (2) Honda, K. and Taniguchi, T. (2006) *Nat Rev Immunol* 6, 644-58.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig S—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected *Species enclosed in parentheses are predicted to react based on 100% homology.*