Store at

73

Type I Interferon Induction and Signaling Antibody Sampler Kit



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

1 Kit (9 x 20 microliters)

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-IRF-3 (Ser386) (E7J8G) XP [®] Rabbit mAb	37829	20 µl	50-55 kDa	Rabbit IgG
IRF-3 (D6I4C) XP [®] Rabbit mAb	11904	20 µl	50-55 kDa	Rabbit IgG
Phospho-IRF-7 (Ser477) (D7E1W) Rabbit mAb	12390	20 µl	65 kDa	Rabbit IgG
IRF-7 (D2A1J) Rabbit mAb	13014	20 µl	65 kDa	Rabbit IgG
IFN-β1 (D1D7G) Rabbit mAb	73671	20 µl	19, 21 kDa	Rabbit IgG
Phospho-Stat1 (Ser727) (D3B7) Rabbit mAb	8826	20 µl	91 kDa	Rabbit IgG
Stat1 (D1K9Y) Rabbit mAb	14994	20 µl	84, 91 kDa	Rabbit IgG
IRF-9 (D2T8M) Rabbit mAb	76684	20 µl	48 kDa	Rabbit IgG
MX1 (D3W7I) Rabbit mAb	37849	20 µl	76 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Type I Interferon Induction and Signaling Antibody Sampler Kit provides an economical means of detecting the activation of pathways leading to upregulation of type I interferon (IFN), expression of IFN- β 1, activation of signaling downstream of type I IFN, and expression of the MX1 interferon response gene, using phospho-specific and control antibodies. The kit includes enough antibodies to perform at least two western blot experiments.
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. <i>Do not aliquot the antibodies.</i>
Background	The innate immune system uses pattern recognition receptors (PRRs) that detect conserved pathogen- associated molecular patterns (PAMPs), such as cytoplasmic double-stranded RNA, to detect and initiate an immune response to viral infection. Detection of virus by PRRs leads to phosphorylation and nuclear translocation of IRF-3 and IRF-7, resulting in upregulation of type I interferons, which include IFN- α and IFN- β (1-3). Type I interferons signal through the interferon α/β receptor (IFNAR), leading to phosphorylation and activation of Stat1 and Stat2, which form a complex with IRF-9 (4,5). This complex translocates to the nucleus where it induces transcription of interferon response genes including viral restriction factors, such as MX1, that limit viral replication and propagation (4-7).
Background References	 Servant, M.J. et al. (2003) <i>J Biol Chem</i> 278, 9441-7. Lin, R. et al. (2000) <i>J Biol Chem</i> 275, 34320-7. Sato, M. et al. (2000) <i>Immunity</i> 13, 539-48. Fu, X.Y. et al. (1990) <i>Proc Natl Acad Sci U S A</i> 87, 8555-9. Qureshi, S.A. et al. (1995) <i>Proc Natl Acad Sci U S A</i> 92, 3829-33. Staeheli, P. et al. (1986) <i>Cell</i> 44, 147-58. Staeheli, P. and Haller, O. (1985) <i>Mol Cell Biol</i> 5, 2150-3.
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
	XP is a registered trademark of Cell Signaling Technology, Inc.
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.