

Product Data Sheet

IRF-4 Antibody

(This product has been discontinued.)

Tested Species Reactivity

Human (Hu)

Tested Applications Dilution *

Western Blot (WB) 1:1000

Immunoprecipitation (IP) 1:100

ChIP assay (ChIP) 1:25

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details

Catalog Number: PA5-16186

Size: 100 ul

Class: Polyclonal

Type: Antibody

Clone:

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic peptide (KLH-coupled) corresponding to residues around Asp175 of human IRF-4.

Form Information

Form: Liquid

Purification: Affinity chromatography

Storage Buffer: 0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol

Preservative: no preservative

Storage Conditions: -20° C, Avoid Freeze/Thaw Cycles

Product Specific Information General Information

Anti-IRF-4 Polyclonal Antibody PA5-16186 has been tested and validated in use for Western Blot, Immunoprecipitation and ChIP.

A molecular weight of approximately 51 kDa is expected.

Interferon regulatory factors (IRFs) are a family of transcription factors that function with the Jak/Stat pathway to regulate interferons in response to viral infection and also regulate interferon-inducible gene expression. IRFs play an important role in the defense against pathogens, autoimmunity, lymphocyte development, cell growth and susceptibility to transformation. The IRF family has nine members: IRF-1, IRF-2, ISGF3gamma/p48, IRF-3, IRF-4 (Pip/LSIRF/ICSAT), IRF-5, IRF-6, IRF-7 and IRF-8/ICSBP, which share homology in their amino-terminal DNA binding domains. IRF family members regulate transcription through interactions with proteins which have similar DNA binding motifs including IFN stimulated response element (ISRE), IFN consensus sequence (ICS) and IFN regulatory element (IRF-E). IRF-4 was independently cloned by three groups and demonstrated to have roles in different contexts of lymphoid regulation. First, IRF-4 (Pip) was found to associate with PU.1, a hematopoietic specific member of the ETS family, and to regulate the expression of B-cell specific genes. Second, it was characterized as a lymphoid-specific member of the IRF family (LSIRF) and able to bind to ISRE. Third, it was identified in activated T cells as a factor that binds to the promoter of the interleukin-5 gene (ICSAT), and shown to repress gene activation induced by IFN. IRF-4 is expressed in all stages of B cell development and in mature T cells, and is inducible in primary lymphocytes by antigen mimetic stimuli such as Concavalin A, CD3 crosslinking, anti-IgM and PMA treatment. Mice deficient in IRF-4 show normal distribution of B and T lymphocytes at 4 to 5 weeks, but later develop progressive generalized lymphadenopathy, suggesting a role for IRF-4 in the function and homeostasis of mature B- and T-lymphocytes.

This product is for In Vitro experimental use only. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S), AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF: (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to humans or animals.

Thermo Fisher Scientific
3747 N. Meridian Road

PO Box 117
Rockford, IL 61105 USA

(815) 968-0747 or (800) 874-3723
(815) 968-7316 fax

thermoscientific.com/pierce

Thermo
SCIENTIFIC
A Thermo Fisher Scientific Brand

Product Data Sheet

IRF-4 Antibody

(This product has been discontinued.)

Tested Species Reactivity

Human (Hu)

Tested Applications Dilution *

Western Blot (WB) 1:1000

Immunoprecipitation (IP) 1:100

ChIP assay (ChIP) 1:25

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details

Catalog Number: PA5-16186

Size: 100 ul

Class: Polyclonal

Type: Antibody

Clone:

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic peptide (KLH-coupled) corresponding to residues around Asp175 of human IRF-4.

Form Information

Form: Liquid

Purification: Affinity chromatography

Storage Buffer: 0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol

Preservative: no preservative

Storage Conditions: -20° C, Avoid Freeze/Thaw Cycles

Product Specific Information General Information

Anti-IRF-4 Polyclonal Antibody PA5-16186 has been tested and validated in use for Western Blot, Immunoprecipitation and ChIP.

A molecular weight of approximately 51 kDa is expected.

Interferon regulatory factors (IRFs) are a family of transcription factors that function with the Jak/Stat pathway to regulate interferons in response to viral infection and also regulate interferon-inducible gene expression. IRFs play an important role in the defense against pathogens, autoimmunity, lymphocyte development, cell growth and susceptibility to transformation. The IRF family has nine members: IRF-1, IRF-2, ISGF3gamma/p48, IRF-3, IRF-4 (Pip/LSIRF/ICSAT), IRF-5, IRF-6, IRF-7 and IRF-8/ICSBP, which share homology in their amino-terminal DNA binding domains. IRF family members regulate transcription through interactions with proteins which have similar DNA binding motifs including IFN stimulated response element (ISRE), IFN consensus sequence (ICS) and IFN regulatory element (IRF-E). IRF-4 was independently cloned by three groups and demonstrated to have roles in different contexts of lymphoid regulation. First, IRF-4 (Pip) was found to associate with PU.1, a hematopoietic specific member of the ETS family, and to regulate the expression of B-cell specific genes. Second, it was characterized as a lymphoid-specific member of the IRF family (LSIRF) and able to bind to ISRE. Third, it was identified in activated T cells as a factor that binds to the promoter of the interleukin-5 gene (ICSAT), and shown to repress gene activation induced by IFN. IRF-4 is expressed in all stages of B cell development and in mature T cells, and is inducible in primary lymphocytes by antigen mimetic stimuli such as Concavalin A, CD3 crosslinking, anti-IgM and PMA treatment. Mice deficient in IRF-4 show normal distribution of B and T lymphocytes at 4 to 5 weeks, but later develop progressive generalized lymphadenopathy, suggesting a role for IRF-4 in the function and homeostasis of mature B- and T-lymphocytes.

This product is for In Vitro experimental use only. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S), AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF: (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to humans or animals.

Thermo Fisher Scientific
3747 N. Meridian Road

PO Box 117
Rockford, IL 61105 USA

(815) 968-0747 or (800) 874-3723
(815) 968-7316 fax

thermoscientific.com/pierce

Thermo
SCIENTIFIC
A Thermo Fisher Scientific Brand