

Datasheet for 214-401-C40**Interferon Beta Antibody****Overview**

Description:	Anti-Swine Interferon beta (RABBIT) Antibody - 214-401-C40
Item No.:	214-401-C40
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Pig
Host Species:	Rabbit

Product Details

Background:	Type I interferons comprise a vast and growing group of IFN proteins. Homologous molecules to type I IFNs are found in many species, including all mammals, and some have been identified in birds, reptiles, amphibians and fish species. The mammalian types are designated IFN-alpha, IFN-beta, IFN-kappa, IFN-delta, IFN-epsilon, IFN-tau, IFN-omega, and IFN-zeta (also known as limitin). The IFN-beta proteins are produced in large quantities by fibroblasts. They have antiviral activity which is mainly involved in innate immune response. Two types of IFN-beta proteins have been described.
Synonyms:	rabbit anti-Interferon Beta Antibody, rabbit anti-IFN-beta antibody, Interferon-beta, interferon-beta/ polIFN-beta, IFN
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IFN beta
Reactivity:	Pig
Immunogen Type:	Recombinant Protein
Immunogen:	This protein A purified antibody was prepared from whole rabbit antiserum produced by repeated immunizations with a recombinant protein raised in yeast corresponding to 164 amino acids of the mature swine IFN beta protein.

Purity/Specificity: This product was protein A purified from monospecific antiserum by chromatography. This antibody is specific for swine IFN beta protein. A BLAST analysis was used to suggest cross-reactivity with IFN beta from *Sus scrofa* (pig), *Potamochoerus larvatus koiropotamus*, *Potamochoerus larvatus* (Bushpig), and *Phacochoerus africanus* (warthog) sources based on 100% homology with the immunizing sequence. Cross-reactivity with IFN beta from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q29412](#)
- [GeneID - 445459](#)
- [NCBI - NP_001003923.1](#)

Application Details

Tested Applications: ELISA, WB

Application Note: This protein A purified IFN-beta antibody has been tested by ELISA and Western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 19.5 kDa in size corresponding to swine IFN beta by western blotting in the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:20,000

WB: 1:500-1:2,000

Formulation

Physical State: Lyophilized

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

Reconstitution Volume: 100 µL

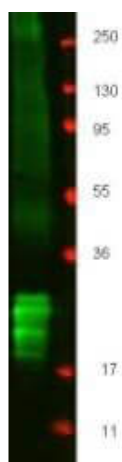
Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's protein-A purified anti-swine IFN beta antibody shows detection of recombinant Swine IFN beta at about 19.5 kDa raised in yeast. Membrane was blocked with 3% BSA (BSA-30, diluted 1:10), and probed with 1 µg/mL primary antibody overnight at 4°C. After washing, membrane was probed with IRDye800® Conjugated Goat Anti-Rabbit IgG (p/n 611-132-122) for 45 min at room temperature.

References

- Dawson HD et al. Porcine cytokines, chemokines and growth factors: 2019 update *Res Vet Sci.* (2019)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.