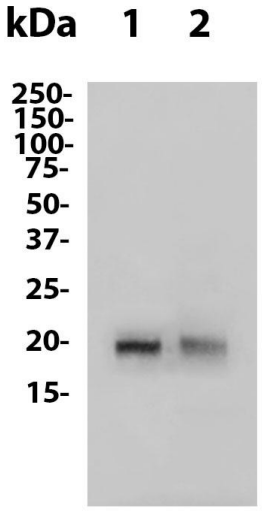
Product Datasheet

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Leinco Technologies, Inc.
excellence in early discovery research™

Anti-Mouse IFNß [Clone HDß-4A7] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody



Lane 1: 1 ug reduced recombinant mouse IFN-ß

Lane 2: 0.5 ug reduced recombinant mouse IFN-ß

Primary: anti-mouse IFN-ß antibody (HDß-4A7) at 8 ug/ml (Prod. No. I-1182)

Secondary: HRP labeled goat anti-mouse at 1:1000 dilution (Prod. No. M114)

Predicted band size: ~20 kDa

Product Information

Product No.:	I-1182
Clone:	HDß-4A7
RRID:	AB_2737532
Isotype:	Mouse Mouse IgG2a
Storage:	Sterile 2-8°C

Product Description

Specificity:
Mouse Anti-Mouse Interferon-beta (IFN-ß) (Clone HDß-4A7) recognizes an epitope on Mouse IFN-ß and binds specifically to murine IFNß and does not bind murine IFNg or several different IFNa species (a-1,4,5 or 13); HDb-4A7 binds both recombinant and natural forms. This antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Known Reactivity Species:
Mouse

Format:
in vivo GOLD™, Purified in vivo Functional Grade

Immunogen:
Plasmid DNA encoding murine IFNb

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity
≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin
< 1.0 EU/mg as determined by the LAL method

Storage and Stability
Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

Product Preparation
Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Other Applications Reported in Literature:

FA
B
N
WB

In Vitro Activity of HDß-4A7 - Inhibits IFNb-induced Stat1 phosphorylation (level of inhibition is similar to that seen using anti-IFNAR1 mAb (MAR1-5A3). **Blocks** IFNb induction of MHC-I expression (H2-Kb) using L929 or fibrosarcoma cell lines. **Neutralizes** IFNb-induced antiviral activity in vitro following infection of L929 cells with VSV.
In Vivo Activity of HDß-4A7 circulates with a half-life of ~ 14 days.
Blocks in vivo IFNb leading to increased the lethality of mice infected with West Nile Virus (WNV), similar to susceptibility of IFNb-/- mice.

Country of Origin
USA

References
1. Oldstone, Michael B. A. *et al.* (2017) *Proc Natl Acad Sci U S A.* **114**(14): 3708–3713. PubMed