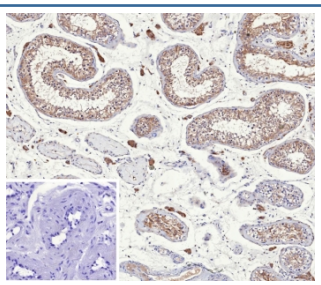
Inhibin Alpha Chain Antibody INHA/9354 / INHA Monoclonal Antibody [clone INHA/9354] (V5751)

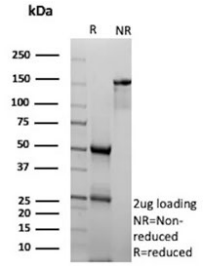
Catalog No.	Formulation	Size
V5751-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5751-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5751SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	INHA/9354
Purity	Protein G affinity
UniProt	P05111
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Inhibin Alpha Chain Antibody INHA/9354 / INHA Monoclonal Antibody is available for research use only.



Inhibin Alpha Chain Antibody INHA/9354 Staining in Human Testis by IHC. Immunohistochemistry staining of FFPE human testis using Inhibin Alpha Chain Antibody (clone INHA/9354) shows distinct brown cytoplasmic labeling within seminiferous tubules, while surrounding stromal areas are largely negative. The PBS negative-control inset shows minimal background staining. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The localized intratubular staining demonstrates detection of inhibin alpha using this INHA Monoclonal Antibody.



Inhibin Alpha Chain Antibody INHA/9354 Purity and Integrity by SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free Inhibin Alpha Chain Antibody (clone INHA/9354) shows distinct immunoglobulin heavy and light chains at approximately 50 kDa and 25 kDa under reducing conditions. Under non-reducing conditions, the intact antibody migrates as a predominant band at approximately 150 kDa. The expected reducing and non-reducing migration patterns support the integrity and purity of this INHA Monoclonal Antibody preparation.

Description

Inhibin Alpha Chain Antibody INHA/9354 recognizes inhibin subunit alpha (INHA), a secreted glycoprotein that forms the alpha chain of the inhibin hormones. INHA belongs to the transforming growth factor beta superfamily and associates with distinct beta subunits to produce biologically active inhibins. Combination of the alpha chain with inhibin beta A forms inhibin A, while association with inhibin beta B forms inhibin B. These heterodimeric hormones function as important regulators of reproductive endocrine signaling.

Inhibin alpha is produced prominently by granulosa cells of the ovary and Sertoli cells of the testis. Inhibin A and inhibin B participate in negative feedback regulation of follicle-stimulating hormone secretion from the anterior pituitary, contributing to the control of follicular development, spermatogenesis, and reproductive hormone balance. INHA is initially synthesized as a precursor protein that undergoes proteolytic processing before formation and secretion of mature inhibin complexes.

Expression of the inhibin alpha chain is also studied as a marker of cellular differentiation in gonadal, endocrine, and steroidogenic tissues. INHA is associated with sex cord-stromal tumors, including granulosa cell tumors, and is also studied in certain adrenal cortical and other neoplasms showing steroidogenic differentiation. These expression patterns make inhibin alpha relevant to research involving reproductive tissue development, endocrine biology, cellular lineage, and tumor differentiation.

Clone INHA/9354 is a mouse monoclonal antibody generated against a recombinant fragment from within amino acids 233-362 of human INHA. This INHA Monoclonal Antibody provides a defined reagent for investigating inhibin alpha chain expression and complements other approaches to studying reproductive physiology, endocrine regulation, and INHA-associated tumor biology. NSJ Bioreagents supplies clone INHA/9354 for research use only.

An Inhibin Alpha Chain Antibody can be used to investigate INHA expression and its relationship to gonadal biology, reproductive hormone regulation, endocrine physiology, cellular differentiation, and tumor biology.

For a recombinant monoclonal with complementary tissue and Western blot validation, see our INHA Antibody INHA/6598R / Inhibin Alpha Monoclonal Antibody page.

Application Notes

Optimal dilution of the Inhibin Alpha Chain Antibody INHA/9354 / INHA Monoclonal Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein from human Inhibin alpha protein (within amino acids 233-362) was used as the immunogen for the Inhibin Alpha Chain Antibody INHA/9354.

Storage

Aliquot the Inhibin Alpha Chain Antibody INHA/9354 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Inhibin alpha antibody, Inhibin alpha subunit antibody, INHA antibody, Inhibin A alpha antibody

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