Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825
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Anti-H_TSHR mIgG2a Antibody(KSAb2)

Product Information

GM-87935AB-10	10 μg
GM-87935AB-100	100 μg
GM-87935AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Clone	KSAb2
Source/Isotype	Monoclonal mIgG2a/κ
Application	Flow cytometry
Specificity	Detects TSHR
Gene	TSHR
Other Names	CHNG1, LGR3, hTSHR-I
Gene ID	7253 (human)
Background	The TSHR (Thyroid Stimulating Hormone Receptor) gene encodes a transmembrane G protein-coupled receptor essential for thyroid function regulation. Expressed on thyroid follicular cell membranes, it binds TSH to activate signaling pathways like cAMP-PKA, controlling thyroid hormone (T3 and T4) synthesis and maintaining metabolic and endocrine balance.TSHR antibodies (TSHR-Ab) are highly specific tools for studying TSHR function and thyroid disease mechanisms. In Graves' disease, stimulatory antibodies (TSAb) mimic TSH, overactivating TSHR and causing excessive hormone secretion, while blocking antibodies (TBAb) inhibit TSH binding, leading to hypothyroidism. TSHR antibodies are valuable in disease diagnosis, drug development, and animal model construction, supporting thyroid disease research and clinical applications.
Storage	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

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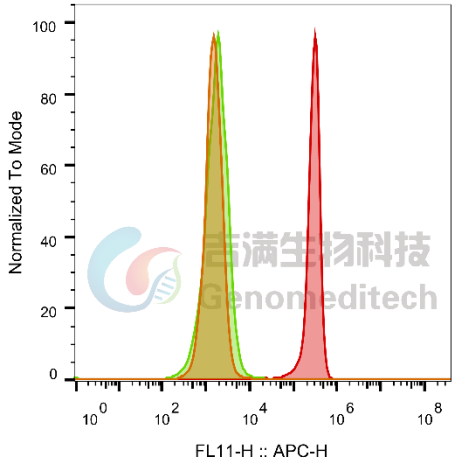
Data Examples

Flow cytometry

H_TSHR HEK-293 Cell Line (Catalog # GM-C39975) was stained with Anti-H_TSHR mIgG2a Antibody(KSAb2) (Catalog # GM-87935AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



	SampleID	Geometric Mean : FL11-H
	HEK-293 anti-TSHR+APC-2nd Ab	1502
	HEK-293 H_TSHR M_IgG+APC-2nd Ab	1681
	HEK-293 H_TSHR anti-TSHR+APC-2nd Ab	276043

Fig. FACS