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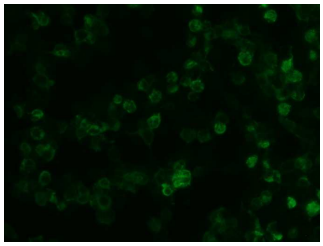
KX596

For research use only

Anti Human TSHR Monoclonal Antibody

Clone No. 2E6

Code No.	KX596
Terget	TSHR
Category	GPCR
Gene ID	7253
Primary Source	HGNC:12373
Synonyms	LGR3; CHNG1; hTSHR-I; MGC75129
Type	Monoclonal Antibody
Immunogen	plasmid vector
Raised in	Mouse
Myeloma	P3U1
Clone number	2E6
Purification	ProteinG
Source	Serum-free medium
Isotype	IgG1,κ
Cross Reactivity	
Label	Unlabeled
Concentration	0.25 mg/mL
Contents(Volume)	50 μg（200 μL/vial)
Buffer	PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]
Storage	Store at - 20℃ long term, store at 4℃ short term. Avoid repeated freeze-thaw cycles.
Application	ELISA,IHC



[ICC] HEK293T cells overexpressing human TSHR

ELISA	WB	IHC	ICC
Not tested	Not tested	Not tested	1.0
IP	FCM	IF	Neutralization
Not tested	1.0	Not tested	Not tested

(μg/mL)

Reference

1. "Molecular cloning, sequence and functional expression of the cDNA for the human thyrotropin receptor." Nagayama Y. et al. Biochem. Biophys. Res. Commun. 165:1184-1190(1989) [PubMed: 2558651] [Abstract]. Cited for: NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM LONG).
2. "Cloning, sequencing and expression of the human thyrotropin (TSH) receptor: evidence for binding of autoantibodies." Libert F. et al. Biochem. Biophys. Res. Commun. 165:1250-1255(1989) [PubMed: 2610690] [Abstract]. Cited for: NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM LONG).
3. "Cloning, sequencing and expression of human TSH receptor." Misrahi M. et al. Biochem. Biophys. Res. Commun. 166:394-403(1990) [PubMed: 2302212] [Abstract]. Cited for: NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM LONG), VARIANT GLU-727

UniPlot Summary

//Function Receptor for thyrothropin. Plays a central role in controlling thyroid cell metabolism. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Also acts as a receptor for thyrostimulin (GPA2+GPB5). Ref.9
//Subunit structure Interacts (via the PDZ-binding motif) with SCRIB; regulates TSHR trafficking and function. Ref.9 Ref.10
//Subcellular location Cell membrane; Multi-pass membrane protein.
//Polymorphism The Asp727Glu polymorphism is associated with Graves disease in a Russian population. The Glu727 allele and the heterozygous Asp727Glu genotype are related to higher risk of the disease. The Asp727Glu polymorphism significantly ameliorates G(s)alpha protein activation in the presence of the gain-of-function mutation Ala593Asn although it is functionally inert in the context of the wild-type TSHR.
//Sequence similarities Belongs to the G-protein coupled receptor 1 family. FSH/LSH/TSH subfamily.