

# RSR

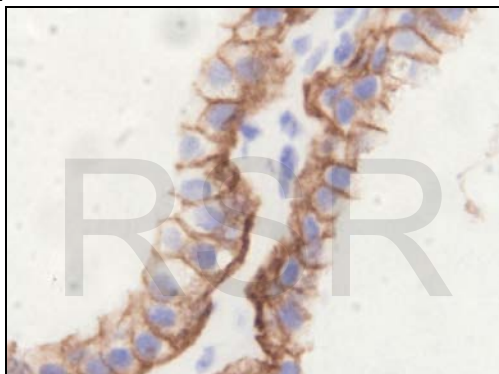
## SPECIFICATIONS

### TSH RECEPTOR HUMAN MONOCLONAL AUTOANTIBODY – STIMULATING TYPE

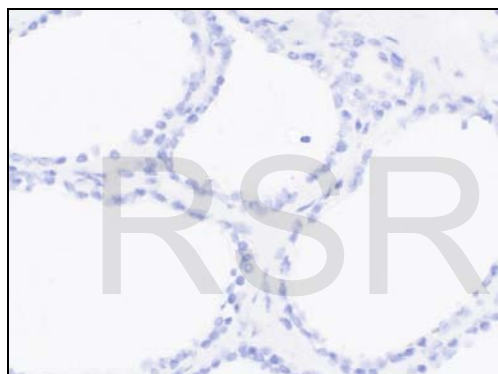
#### RSR – TSHR hMAb M22™

<b>Isotype/ Light chain:</b>	IgG 1 lambda
<b>Expression system:</b>	IgG purified from cell culture supernatant
<b>Molecular weight:</b>	150,000
<b>Available forms:</b>	Vials containing 4 µg or 40 µg IgG freeze-dried with 2.5 mg of bovine serum albumin
<b>Applications:</b>	Suitable for use in receptor assays, bioassays and immunohistochemistry
<b>Storage:</b>	-20°C or below
<b>Order code:</b>	M22/FD/0.004 M22/FD/0.04
<b>Literature:</b>	J Sanders et al, Lancet 2003 <b>362</b> : 126-128 Human monoclonal thyroid stimulating autoantibody B Rees Smith et al, Thyroid 2007 <b>17</b> : 923-938 TSH receptor antibodies B Rees Smith et al, Horm Metab Res 2009 <b>41</b> :448-455 TSH receptor – Autoantibody interactions P Sanders et al, J of Mol Endocrinol 2011 <b>46</b> :81-99 Crystal structure of the TSH receptor (TSHR) bound to a blocking-type TSHR autoantibody
<b>Patents:</b>	Several patents apply to commercial applications of M22™ including: European Patent No. EP 1565493 B1 Japanese Patent Nos. 5314234 and 5722927 Chinese Patent No. CN 1717418B Indian Patent No. 226719 U.S. Patent Nos. 8,110,664 B2, 8,753,637 B2 and 8,900,823 B2

#### Immunohistochemistry:

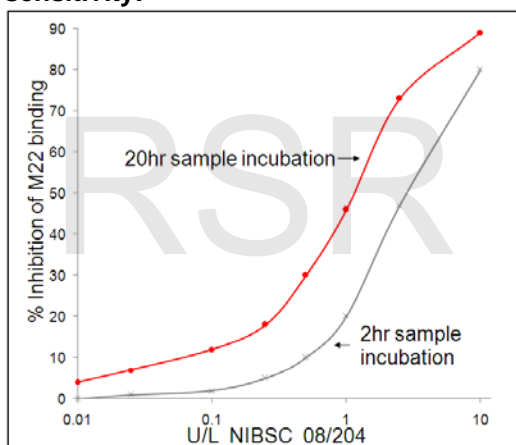


Human thyroid x 100  
Stained with biotinylated M22™ (2.5µg/mL)



Human thyroid x 40  
Stained with biotinylated Isotype Control (5µg/mL)

#### Increasing TRAb assay sensitivity:



The international standard for thyroid stimulating antibody NIBSC 08/204 was diluted in healthy blood donor serum and assayed in ElisaRSR™ TRAb 3<sup>rd</sup> Generation. Sample incubation times were 2hr at room temperature (standard assay condition) or 20hr at 2-8°C. Calibrators and controls for use in the highly sensitive 20hr incubation assay are available from RSR.

#### RSR Limited

##### Diagnostics for Autoimmunity

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