

Novocastra™ Lyophilized Mouse Monoclonal Antibody Thyroid Stimulating Hormone Receptor

Product Code: NCL-TSH-R2

Intended Use	FOR RESEARCH USE ONLY.
Specificity	Human thyroid stimulating hormone receptor, within the region of amino acid residues 211 to 414.
Clone	4C1/E1/G8
Ig Class	IgG2a
Antigen Used for Immunizations	Human thyroid stimulating hormone receptor (extracellular domain).
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Lyophilized tissue culture supernatant containing 15 mM sodium azide. Reconstitute with 1 mL or 0.1 mL of sterile distilled water as indicated on vial label.
Effective on Frozen Tissue	Yes
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Immunohistochemistry: Typical working dilution 1:25–1:50. 60 minutes primary antibody incubation at 25 °C. Standard ABC technique. Western Blotting: Not recommended.
Positive Controls	Immunohistochemistry: Normal human thyroid
Staining Pattern	Cytoplasmic
Storage and Stability	Store unopened lyophilized antibody at 4 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
General Overview	The thyroid stimulating hormone receptor (TSHR) is an important molecule for the control of growth and function of normal thyroid and in humans it is frequently a target of autoimmunity. In normal human thyroid tissues, positive staining may be observed exclusively along the basal cell surface of the follicular cells with no staining of optical and lateral cell surfaces.
General References	Mizukami Y, Hashimoto T, Nonomura A, et al.. Journal of Clinical Endocrinology and Metabolism. 79 (2): 616–619 (1994).

