Anti-human Thyroid Hormone Receptor, α2 Isotype
Monoclonal Antibody

CLN268AP
Lot:
Size: 100 μl
Product Description: Affinity purified mouse monoclonal antibody
Isotype: IgG1
Clone: 1330
Applications: WB: 1:1,000
Antigen: Peptide corresponding to amino acid residues from the N-terminal region of human thyroid hormone receptor, α2-isotype.
Species reactivity: The antibody has been directly tested for reactivity in Western blots with human and rat tissue. It is anticipated that the antibody will react with bovine, mouse and non-human primates based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
Biological Significance: Thyroid hormones are essential for development of the central nervous system and deficits in these hormones during development affects such cognitive functions as learning and memory (Ambrogini et al., 2005; Chan and Kilby, 2000). Thyroid hormones exert their physiological role mainly through binding to specific nuclear receptors including the predominant isoforms of thyroid hormone receptors, TRα1, TRα2, TRβ1 and TRβ2. TRα1, TRβ1 and TRβ2 bind T3 with high affinity and also bind to thyroid hormone response elements (TREs) on chromatin to regulate the transcriptional processes in several target tissues, including adult rat brain (Constantinou et al., 2005).
Purification Method: Prepared from mouse ascites by ammonium sulfate precipitation followed by affinity purification on a protein G column.
Antibody Specificity: Specific for the ~58k TR-α2 protein.
Quality Control Tests: Western blots performed on each lot.


Laboratory Reagent For Research Use Only