BACKGROUND
Thyroxine (T4) is a tyrosine-based hormone produced by the thyroid glands. Thyroxine circulates throughout the body primarily bound to carrier proteins. Free T4 is converted to Triiodothyronine (T3) in peripheral tissues. The thyronines act on the body to increase the basal metabolic rate, affect protein synthesis and increase the body's sensitivity to catecholamines (such as adrenaline). Cases of hypothyroidism, where the gland is insufficiently active, can be treated by administration of Thyroxine or a combination of Thyroxine and Triiodothyronine. Sufficient levels of maternal Thyroxine is essential for fetal development, and inadequate production can cause irreversible fetal brain damage.

REFERENCES

SOURCE
Thyroxine (ME.125) is a mouse monoclonal antibody raised against Thyroxine conjugated to BSA.

PRODUCT
Each vial contains 100 µg IgG2b in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
Thyroxine (ME.125) is recommended for detection of Thyroxine (T4) of broad mammalian origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with T2, T3 or rT3.

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE
For research use only, not for use in diagnostic procedures.

PROTOCOLS
See our web site at www.scbt.com for detailed protocols and support products.