SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-TTF1/FITC Conjugated antibody

Catalog Number: SL0826R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-TTF1/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human TTF-1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1ug/test ICC/IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Background:	background: This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TFF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Apr 2011] **Function:** Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	May play a role in lung development and surfactant homeostasis. **Subcellular Location:** Nucleus. **Tissue Specificity:** Thyroid and lung. **Post-translational modifications:** Phosphorylated on serine residues by STK3. DISEASE: Chorea, hereditary benign (BHC) [MIM:118700]: A rare autosomal dominant movement disorder, defined by early onset in childhood, a stable or non-progressive course of chorea, and no mental deterioration. Chorea is characterized by involuntary, forcible, rapid, jerky movements that may be subtle or become confluent, markedly altering normal patterns of movement. Note=The disease is caused by mutations affecting the gene represented in this entry. Choreoathetosis and congenital hypothyroidism with or without pulmonary dysfunction (CAHTP) [MIM:610978]: An autosomal dominant disorder that manifests in infancy with neurological disturbances, hypothyroidism, and respiratory problems. It is characterized by movement abnormalities beginning with muscular hypotonia followed by the development of chorea, athetosis, dystonia, ataxia, and dysarthria. {ECO:0000269|PubMed:11854318, Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Belongs to the NK-2 homeobox family. Contains 1 homeobox DNA-binding domain. **Database links:** **Entrez Gene:** 7080 Human **Entrez Gene:** 21869 Mouse **Entrez Gene:** 25628 Rat Omim: 600635 Human **SwissProt:** P43699 Human **SwissProt:** P50220 Mouse **SwissProt:** P23441 Rat **Unigene:** 94367 Human **Unigene:** 89972 Mouse **Unigene:** 34265 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Homeodomain Proteins TTF-1 is present in some regions of the kidney and brain; it is also expressed in the pituitary, parathyroid, and thyroid parafollicular cells. TTF-1 regulates gene expression in the thyroid, kidney, and brain. Its molecular targets in the thyroid are thyroglobulin, thyrotropin receptor, and

SunLong Biotech Co.,LTD

Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

	thyroid peroxidase. TTF1 is one of the better markers in renal adenocarcinoma and neuroendocrine tumors of the kidney (including small cell carcinoma of the kidney). Its specificity and sensitivity are both high, and it can be used to distinguish primary renal adenocarcinoma, secondary adenocarcinoma, and a small subset of gastrointestinal adenocarcinomas.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.