

## Product datasheet for **TA500643AM**

### Leukotriene A4 hydrolase (LTA4H) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI7D11]

#### Product data:

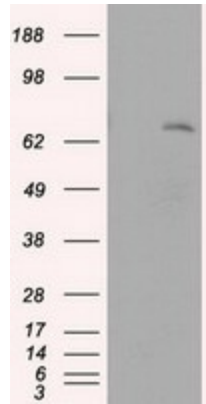
Product Type:	Primary Antibodies
Clone Name:	OTI7D11
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, FLOW 1:100, IP 2-4ug/mg
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human LTA4H (NP_000886) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	69.3 kDa
Gene Name:	leukotriene A4 hydrolase
Database Link:	<a href="#">NP_000886</a> <a href="#">Entrez Gene 16993 Mouse</a> <a href="#">Entrez Gene 299732 Rat</a> <a href="#">Entrez Gene 4048 Human</a> <a href="#">P09960</a>
Background:	Hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). The enzyme also has some peptidase activity
Synonyms:	leukotriene A4 hydrolase
Protein Families:	Druggable Genome, Protease



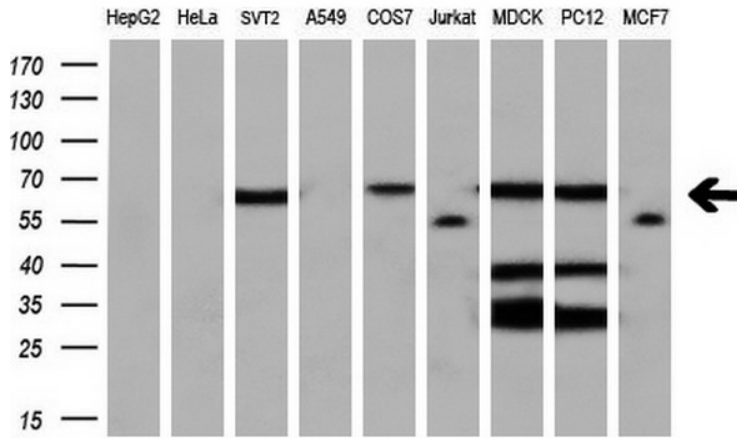
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Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

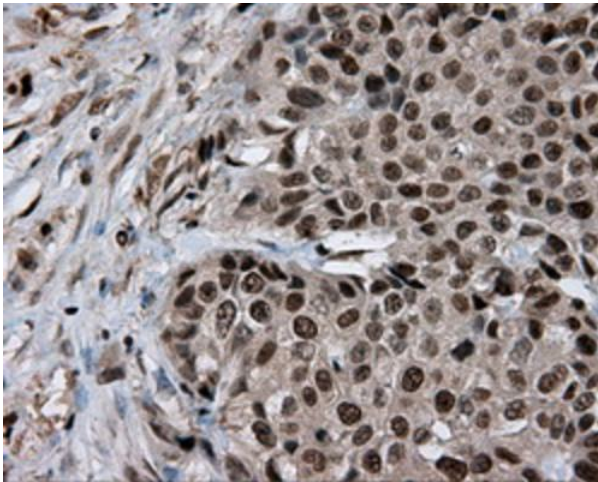
**Product images:**



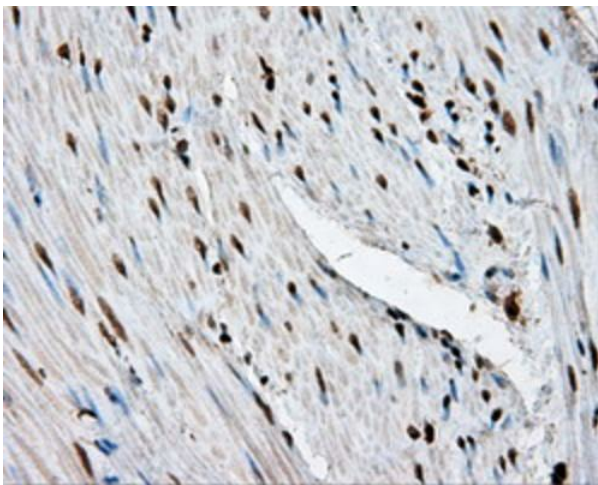
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LTA4H (Cat# [RC207617], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LTA4H(Cat# [TA500643]). Positive lysates [LY424467] (100ug) and [LC424467] (20ug) can be purchased separately from OriGene.



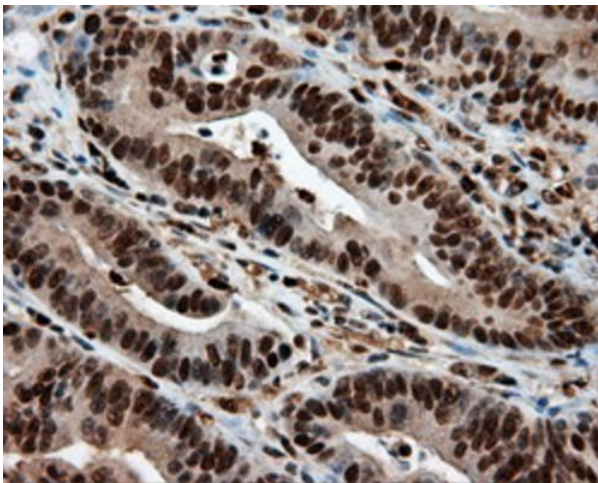
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-LTA4H monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



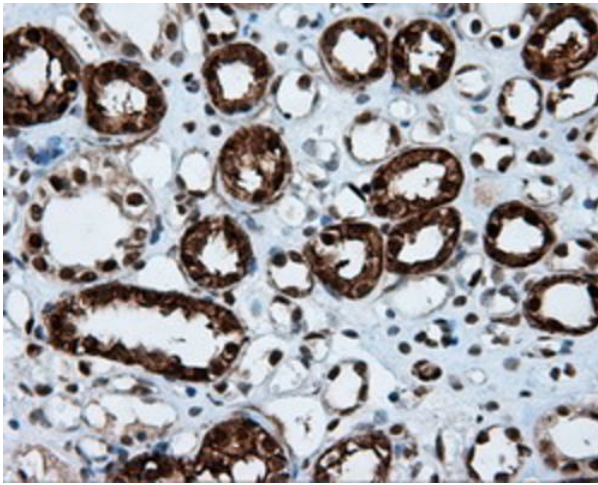
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



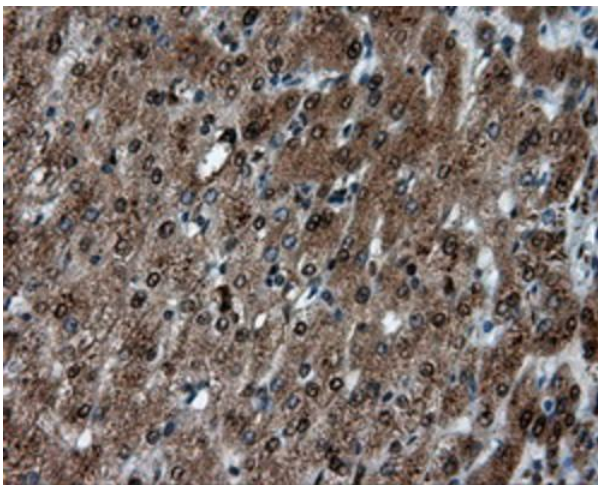
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



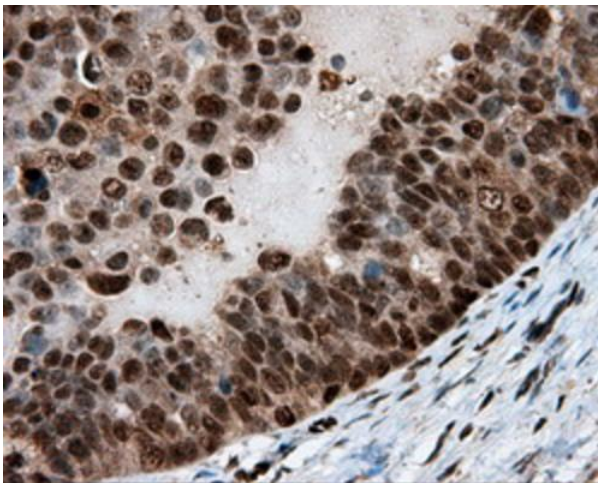
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



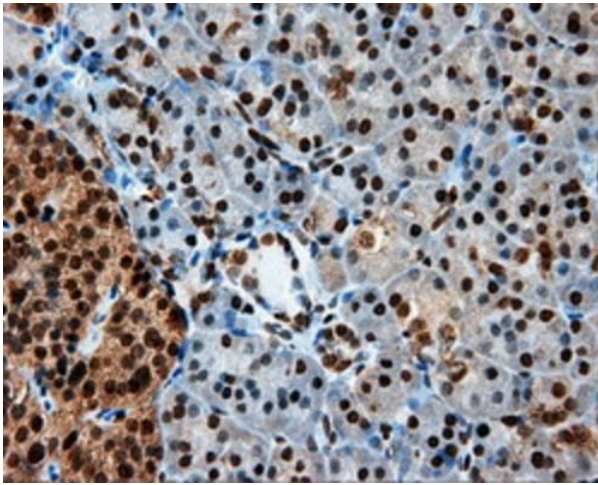
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



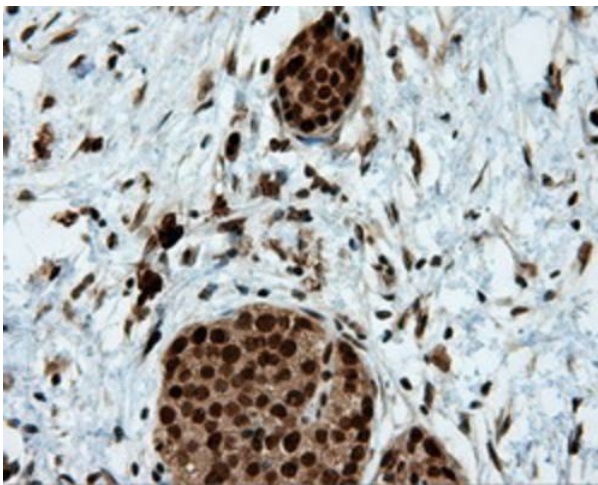
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



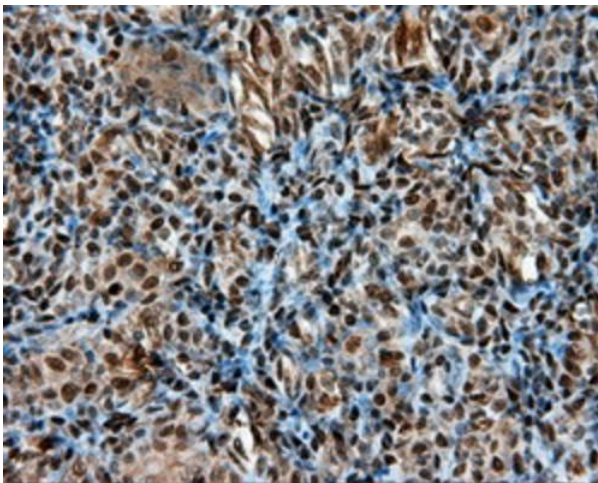
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



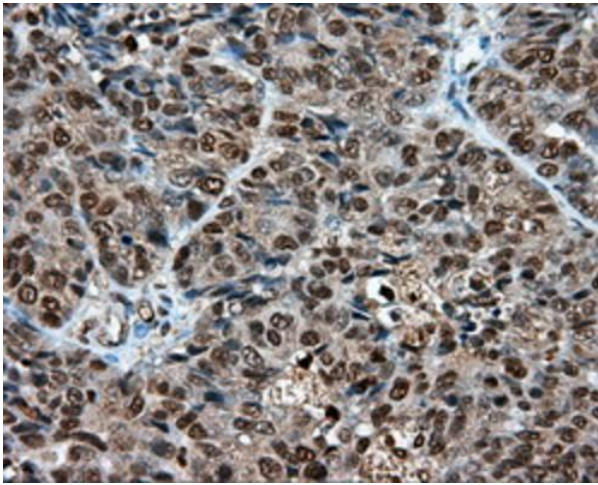
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



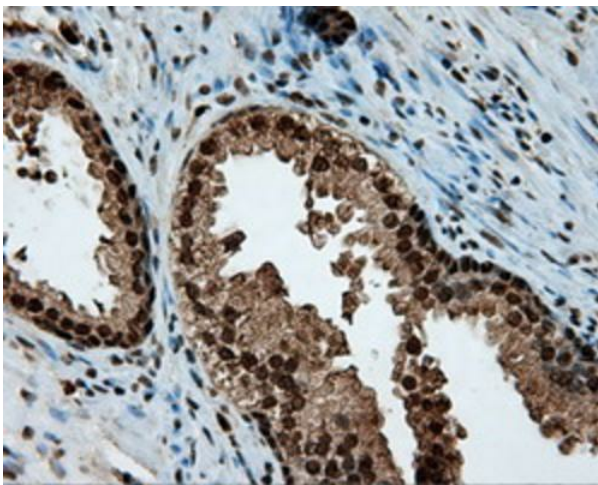
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



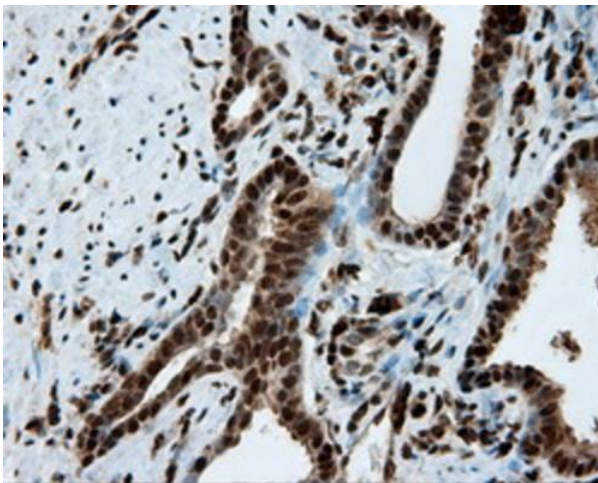
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



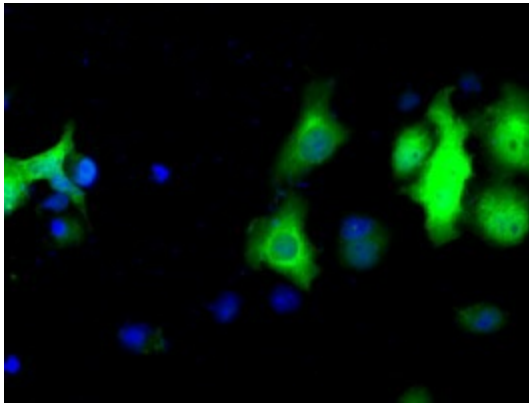
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



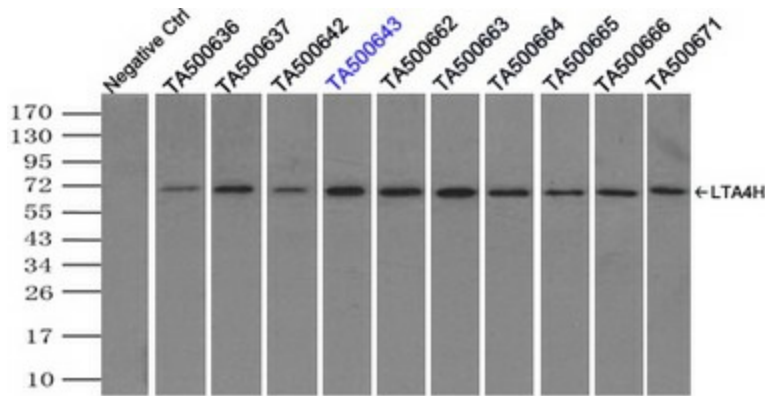
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



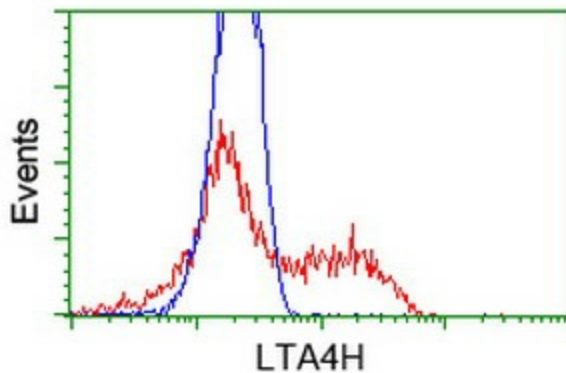
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-LTA4H mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



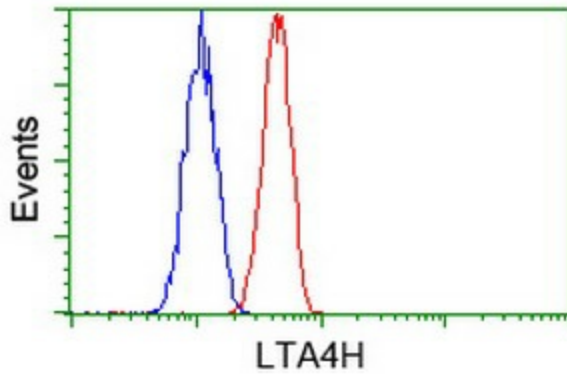
Anti-LTA4H mouse monoclonal antibody ([TA500643]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY LTA4H ([RC207617]).



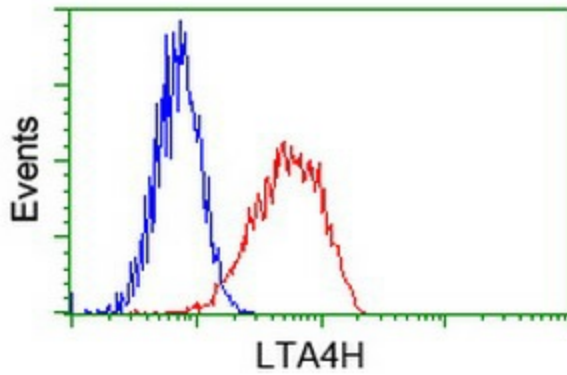
Immunoprecipitation of LTA4H by using TrueMab monoclonal anti-LTA4H antibody (Negative control: IP without adding anti-LTA4H antibody). For each experiment, 500ul of DDK tagged LTA4H overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of ant-LTA4H antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



HEK293T cells transfected with either [RC207617] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-LTA4H antibody ([TA500643]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-LTA4H antibody ([TA500643]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-LTA4H antibody ([TA500643]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).