

Rabbit Anti-FTO antibody

SLM-60733R

Product Name FTO

Chinese Name 脂肪堆积和肥胖相关蛋白 Recombinant rabbit monoclonal anti

Alias Alpha-ketoglutarate-dependent dioxygenase FTO; Fat mass and obesity-associated protein; FTO_HUMAN; Protein fatso.

Research Area Cardiovascular Cell biology immunology Neurobiology Diabetes Endocrinopathy

Immunogen Species Rabbit

Clonality Monoclonal

React Species Human

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 58kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human FTO

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed [PubMed](#)

Product Dioxygenase that repairs alkylated DNA and RNA by oxidative demethylation. Has highest

Detail

activity towards single-stranded RNA containing 3-methyluracil, followed by single-stranded DNA containing 3-methylthymine. Has low demethylase activity towards single-stranded DNA containing 1-methyladenine or 3-methylcytosine. Has no activity towards 1-methylguanine. Has no detectable activity towards double-stranded DNA. Requires molecular oxygen, alpha-ketoglutarate and iron. Contributes to the regulation of the global metabolic rate, energy expenditure and energy homeostasis. Contributes to the regulation of body size and body fat accumulation.

SWISS:
Q9C0B1

Gene ID:
79068

Database links:

[Entrez Gene: 79068](#) Human

[Entrez Gene: 26383](#) Mouse

[Entrez Gene: 291905](#) Rat

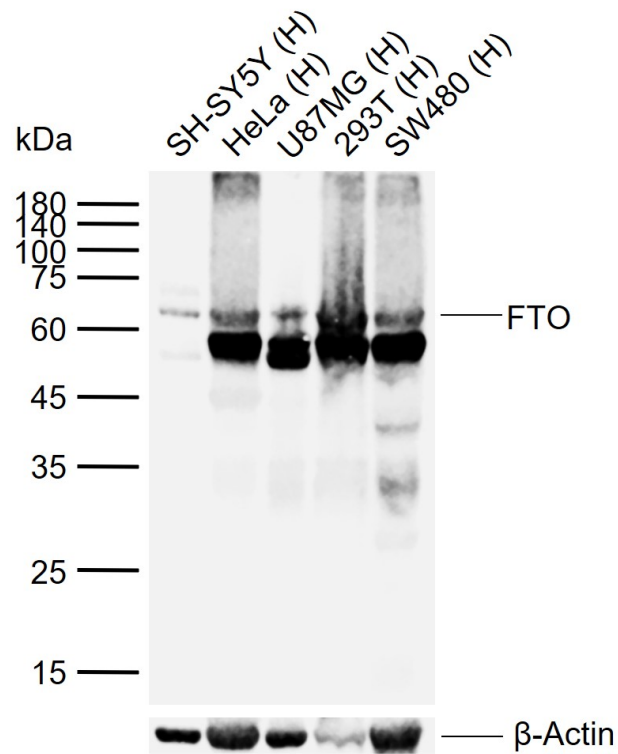
[Omim: 610966](#) Human

[SwissProt: Q9C0B1](#) Human

[SwissProt: Q8BGW1](#) Mouse

[SwissProt: Q2A121](#) Rat

**Product
Picture**



Sample:

Lane 1: Human SH-SY5Y cell lysates

Lane 2: Human HeLa cell lysates

Lane 3: Human U87MG cell lysates

Lane 4: Human 293T cell lysates

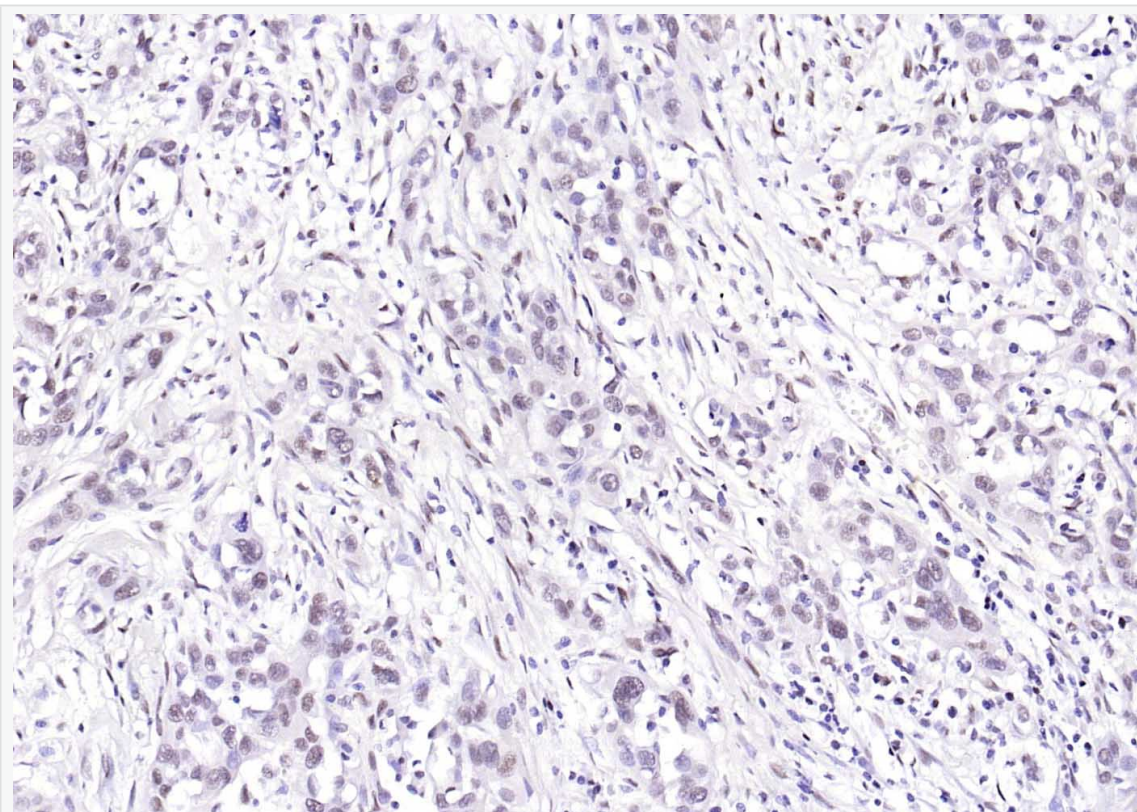
Lane 5: Human SW480 cell lysates

Primary: Anti-FTO (SLM-60733R) at 1/1000 dilution

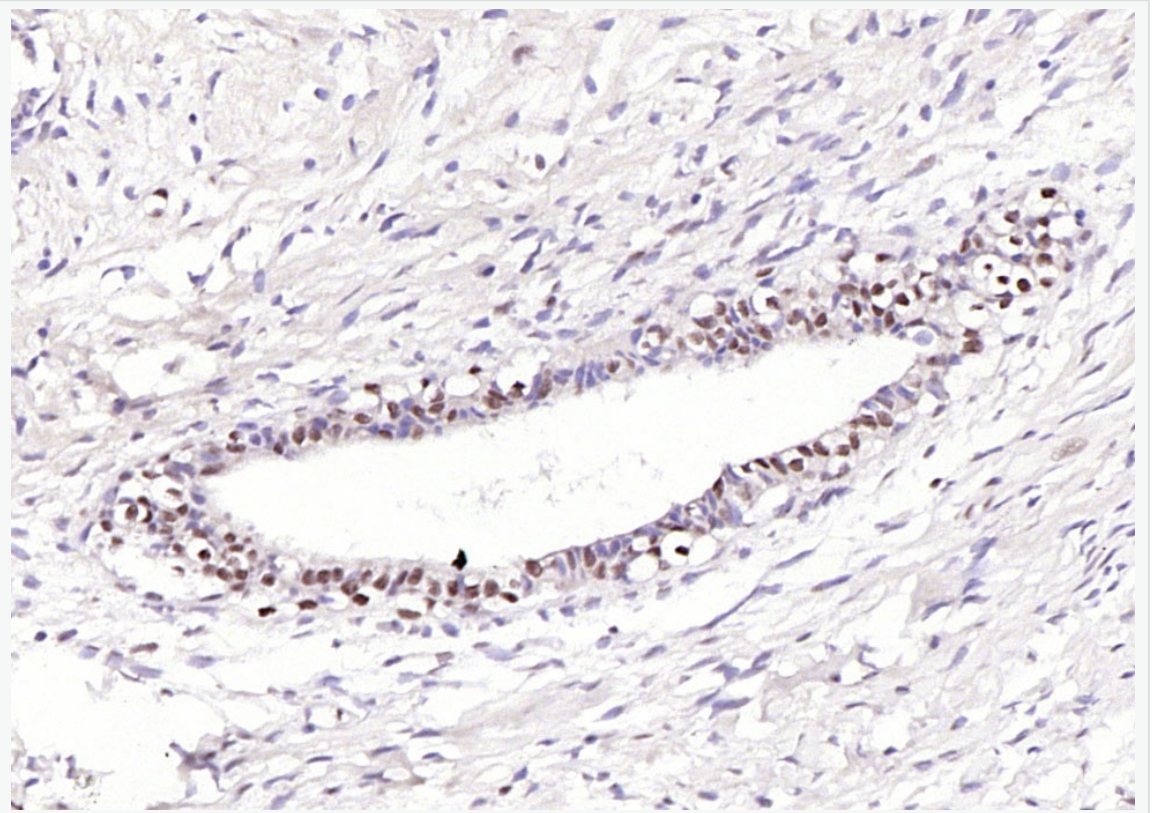
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kDa

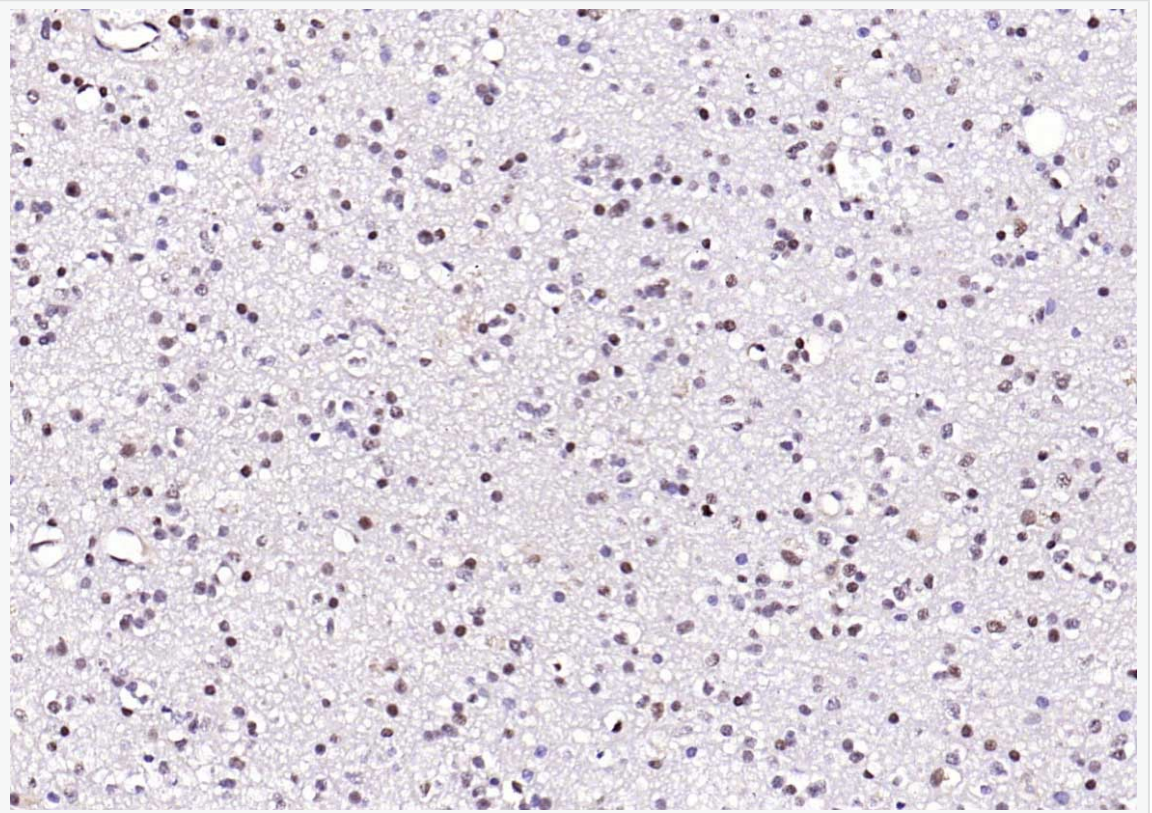
Observed band size: 62 kDa



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FTO) Monoclonal Antibody, Unconjugated (SLM-60733R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FTO) Monoclonal Antibody, Unconjugated (SLM-60733R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FTO) Monoclonal Antibody, Unconjugated (SLM-60733R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.