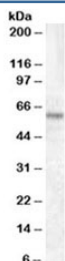


TFE3 Antibody Goat Polyclonal / Transcription Factor E3 Antibody (R35913)

| Catalog No. | Formulation | Size |
|--------------|---|--------|
| R35913-100UG | 0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide | 100 ug |

[Bulk quote request](#)

| | |
|-----------------------------|--|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Predicted Reactivity | Mouse, Dog, Cow |
| Format | Antigen affinity purified |
| Host | Goat |
| Clonality | Polyclonal (goat origin) |
| Isotype | Goat Ig |
| Purity | Antigen affinity |
| Gene ID | 7030 |
| Applications | Western Blot : 1-3ug/ml ELISA (peptide) LOD : 1:32000 |
| Limitations | This TFE3 antibody is available for research use only. |



Western blot testing of HEK293 lysate with TFE3 Antibody Goat Polyclonal at 1ug/ml.
Predicted molecular weight ~60 kDa.

Description

Transcription factor E3 (TFE3) is a member of the MiT family of transcription factors that regulate lysosomal biogenesis, autophagy, and cellular metabolic signaling pathways. TFE3 functions as a nuclear DNA-binding protein that controls transcription of genes involved in stress adaptation and nutrient sensing. TFE3 Antibody Goat Polyclonal is commonly used in research applications investigating the intracellular expression and localization of TFE3 protein in cultured cells

and tissue specimens.

TFE3 antibody, also referred to as Transcription factor E3 antibody in the literature, recognizes a transcription factor that normally localizes to the nucleus where it regulates transcriptional programs controlling cellular metabolism and lysosomal function. Because TFE3 operates as a nuclear transcription regulator, antibody-based detection methods frequently demonstrate nuclear staining patterns in cells expressing TFE3 protein.

TFE3 belongs to the MiT transcription factor family, which also includes MITF, TFEB, and TFEC. These proteins share a conserved basic helix-loop-helix leucine zipper domain that mediates DNA binding and transcriptional regulation. The human TFE3 gene is located on chromosome Xp11.23 and encodes a transcription factor that participates in pathways controlling lysosomal homeostasis, autophagy, and cellular stress responses.

TFE3 antibody, also known as TFE3 antibody or Transcription factor E3 antibody, is widely used to study transcription factor expression and nuclear localization in biological research. Detection of TFE3 protein provides insight into transcriptional regulation pathways that coordinate lysosomal activity, metabolic adaptation, and cellular signaling responses.

A goat polyclonal TFE3 antibody recognizes multiple antigenic epitopes on the TFE3 protein, which can enhance detection sensitivity in research assays. Polyclonal antibodies are frequently used for detecting transcription factors because recognition of multiple epitopes may improve signal detection when target proteins are present at relatively low abundance within cells.

Alterations involving the TFE3 gene are associated with several tumor types, particularly MiT family translocation renal cell carcinoma and other cancers harboring TFE3 gene fusions. These chromosomal rearrangements lead to abnormal nuclear accumulation of TFE3 protein and dysregulation of transcriptional programs that contribute to tumor development.

A goat polyclonal TFE3 Antibody Goat Polyclonal can therefore support research examining transcription factor expression, nuclear signaling pathways, and tumor-associated gene fusion events involving the TFE3 protein.

Application Notes

Optimal dilution of the TFE3 Antibody Goat Polyclonal should be determined by the researcher.

Immunogen

Amino acids SHAAEPARDGVEAS were used as the immunogen for this TFE3 Antibody Goat Polyclonal.

Storage

Aliquot and store the TFE3 antibody at -20oC.

Alternate Names

Transcription factor E3 antibody

