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**Research Use Only. Not
for diagnostic or
therapeutic use.**

Storage: Aliquot and store at
-20°C. Minimize freezing and
thawing.

Product: EB06011 – Goat anti-FOXE1 / TTF2

*This product is one of a range of **Investigative Grade** antibodies, made against targets that have limited or no commercial antibodies available to them and for which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot (see Application Notes below). However no additional claims are made for their ability to recognise native protein in any application.*

Target Protein

Principal Names: FOXE1; forkhead box E1 (thyroid transcription factor 2); FOXE2; TTF2; HFKH4; HFKL5; TTF2; TTF-2; FKHL15; forkhead (Drosophila)-like 15; forkhead box E1; forkhead box E2; thyroid transcription factor-2; Forkhead, drosophila, homolog-like 15

Official Gene Symbol: FOXE1

Accession Number(s): NP_004464.2

Human Gene ID(s): 2304

Gene Ontology terms: RNA polymerase II transcription factor activity; transcription factor activity; ectoderm development; regulation of transcription, DNA-dependent; embryogenesis and morphogenesis; transcription from Pol II promoter; negative regulation of transcription from Pol II promoter; nucleus

Immunogen

Peptide with sequence C-AYPGGIDRFVSAM, from the C Terminus of the protein sequence according to NP_004464.2

Purification

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied as 100 µg of purified antibody. 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:8,000. Western Blot: Preliminary experiments gave an approx 55kDa band in Human Duodenum and Testes lysates after 1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 38.1kDa according to NP_004464.2. The 55kDa band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

Tested:

Expected from sequence similarity: Human

Background Reference

Clifton-Bligh RJ, Wentworth JM, Heinz P, Crisp MS, John R, Lazarus JH, Ludgate M, Chatterjee VK.

Mutation of the gene encoding human TTF-2 associated with thyroid agenesis, cleft palate and choanal atresia.

Nat Genet. 1998 Aug;19(4):399-401.

PMID: 9697705

