

DESCRIPTION

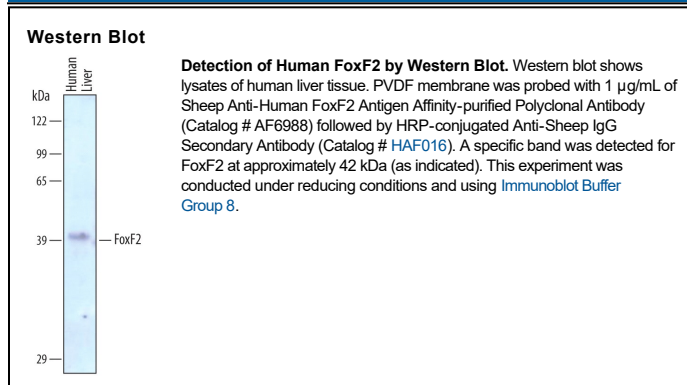
Species Reactivity	Human
Specificity	Detects human FoxF2 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh) FoxF1, rhFoxP3, and rhFoxC2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FoxF2 Ala324-Met444 Accession # Q12947
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FoxF2 (Forkhead box protein F2; also FREAC-2 and FKHL6) is a 42-46 kDa member of the winged helix transcription factor gene family. It is a transcriptional activator that is expressed in embryonic mesenchyme, inducing the synthesis of BMP4 and ECM. In the adult, it is expressed in placenta and lung, specifically in type II pneumocytes plus bronchiolar epithelium, inducing the synthesis of C10 and surfactant proteins B and C. Human FoxF2 is 444 amino acids (aa) in length. It contains one poly-Ala repeat (aa 33-41), a poly-Ser region (aa 46-67), and a poly-Gly segment (aa 77-84), followed by a forkhead DNA binding domain (aa 99-190) and three homopolymeric "runs" involving His (aa 262-272), Gly (aa 301-306) and Ser (aa 312-315). Over aa 324-444, human FoxF2 shares 99% aa identity with mouse FoxF2.