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Datasheet for 009-0933

Human Albumin Texas Red™

Overview

Description:	Human Albumin Texas Red™ Conjugated - 009-0933
Item No.:	009-0933
Size:	1 mg
Applications:	Biochemical Assay
Origin:	Human

Product Details

Background:	Human albumin or serum albumin is encoded by the ALB gene and is the most abundant plasma protein in mammals. Human albumin is essential for maintaining the osmotic pressure needed for proper distribution of body fluids between intravascular compartments and body tissues. Human albumin also acts as a plasma carrier by non-specifically binding several hydrophobic steroid hormones and as a transport protein for hemin and fatty acids. Too much serum albumin in the body can be harmful.
Synonyms:	Human Albumin Texas Red™ conjugation
Species of Origin:	Human
Conjugate:	Texas Red®
Format:	Albumin
Type:	Native Protein
F/P Ratio:	3.9
Specific Activity:	4.5

Target Details

Purity/Specificity:	This product was prepared from normal serum by a multi-step process including selective precipitation and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Human Serum.
Relevant Links:	• NCBI - AAA98797.1 • UniProtKB - P02768

- GeneID - 213

Application Details

Suggested Applications:	Biochemical Assay (Based on references)
Application Note:	Human Albumin Texas Red™ conjugation is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

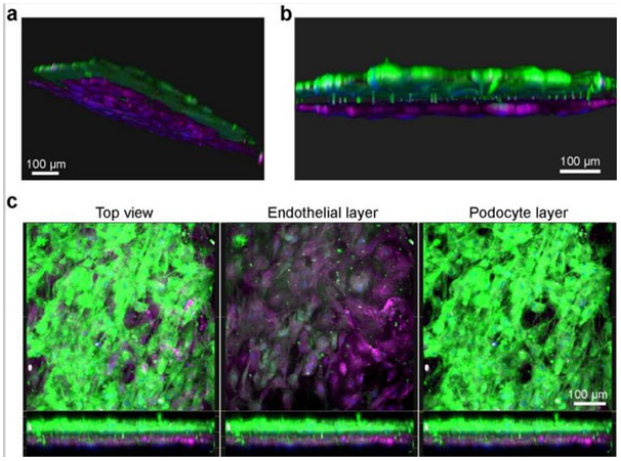
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/ml Polyethylene Glycol (PEG-8000)
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Fluorescence microscopy images of the human kidney Glomerulus Chip established from iPS cell-derived podocytes and primary glomerular endothelial cells. (a) Side and (b) cross-sectional view of 3D reconstructed confocal images of the human Glomerulus Chip showing the iPS cell-derived podocytes and endothelial cells in their respective layers after differentiation and co-culture on opposing sides of the flexible ECM-coated PDMS membrane. (c) Additional immunofluorescence confocal images showing a top view of both cell layers (left), the endothelial cell layer only (middle), and the human iPS cell-derived podocyte layer (right). Scale bars, 100 µm. Figure modified with permission from Reference 5. Human albumin conjugated to Texas Red (p/n 009–0933).
Figure 6. PMID: 29995874.

References

- Nat Protoc. Directed differentiation of human induced pluripotent stem cells into mature kidney podocytes and establishment of a Glomerulus Chip. *Musah S et al.* (2018)

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