

**Supplementary Table 1.** Light microscopy (LM), immunofluorescence (IF), and transmission electron microscopy (TEM) results of samples tested with anti-canine lambda light chain (LLC) antibody (A40-124A, Bethyl Laboratories).

Case	LM	IF (LLC)	TEM	Novice IHC	Trained IHC
B151008	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate staining on capillary and mesangium	Moderate staining on capillary and mesangium
B151005	FSGS	Trace nonspecific	Electron-dense deposits not observed	Weak staining on capillary and mesangium	Weak staining on capillary and mesangium
B151004	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate-strong staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150912	FSGS	Trace nonspecific	Electron-dense deposits not observed	Strong staining on capillary and mesangium	Moderate staining on capillary and mesangium
B150911	FSGS	Trace nonspecific	Electron-dense deposits not observed	Weak-moderate staining on capillary and mesangium	Moderate staining on capillary and mesangium
B150806	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate-strong staining on capillary and mesangium	Strong staining on capillary and mesangium
B150802	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate staining on capillary and mesangium	Strong staining on capillary and mesangium
B150731	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate-strong staining on capillary and mesangium	Moderate-strong staining on capillary and mesangium

Case	LM	IF (LLC)	TEM	Novice IHC	Trained IHC
B150724	FSGS	Trace nonspecific	Electron-dense deposits not observed	Weak-moderate staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150722	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate staining on capillary and mesangium	Moderate-strong staining on capillary and mesangium
B150705	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate-strong staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150616	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150607	FSGS	Trace nonspecific	Electron-dense deposits not observed	Weak staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150418	FSGS	Trace nonspecific	Electron-dense deposits not observed	Trace nonspecific	Trace nonspecific
B150408	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150407	FSGS	Trace nonspecific	Electron-dense deposits not observed	Trace nonspecific	Trace nonspecific
B150307	FSGS	Trace nonspecific	Electron-dense deposits not observed	Moderate staining on capillary and mesangium	Moderate-strong staining on capillary and mesangium
B150910	MPGN	Strong granular and chunky staining along capillary walls and mesangium	Subepithelial, subendothelial, and mesangial zones	Trace nonspecific	Trace nonspecific

Case	LM	IF (LLC)	TEM	Novice IHC	Trained IHC
B150909	MPGN	Strong granular staining along capillary walls and mesangium	Subepithelial deposits	Trace nonspecific	Trace nonspecific
B150908	MGN	Strong granular staining along capillary walls	Subendothelial deposits	Moderate staining on capillary and mesangium	Moderate-strong staining on capillary and mesangium
B150812	MPGN	Strong granular staining along capillary walls and mesangium	Subendothelial, intramembranous, and mesangial electron-dense deposits	Trace nonspecific	Weak-moderate staining on capillary and mesangium
B150803	MPGN	Strong granular staining along capillary walls and mesangium	Subepithelial, subendothelial, and mesangial deposits	Weak staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150728	MPGN	Moderate granular staining along capillary walls and mesangium	Subendothelial, intramembranous, and subepithelial electron-dense deposits	Weak-moderate staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150716	MPGN	Moderate granular staining mostly along mesangial zones and some capillary walls	Electron deposits in mesangial zones	Weak-moderate staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150715	MPGN	Moderate granular staining along capillary walls and mesangium	Subepithelial and subendothelial deposits	Trace nonspecific	Trace nonspecific
B150701	MPGN	Weak granular staining in mesangium	Electron deposits in mesangial zones	Trace nonspecific	Weak-moderate staining on capillary and mesangium
B150614	MPGN	Moderate granular staining along capillary walls and mesangium	Subendothelial deposits and some mesangial zones	Weak-moderate staining on capillary and mesangium	Moderate staining on capillary and mesangium

Case	LM	IF (LLC)	TEM	Novice IHC	Trained IHC
B150609	MGN	Weak granular staining along capillary walls	Subepithelial-intramembranous electron-dense deposits	Moderate staining on capillary and mesangium	Trace nonspecific
B150606	MPGN	Strong granular staining along capillary walls and mesangium	Subendothelial electron-dense deposits	Moderate staining on capillary and mesangium	Weak-moderate staining on capillary and mesangium
B150603	MPGN	Weak linear-granular staining along capillary walls	Subepithelial, subendothelial, and mesangial zones	Trace nonspecific	Trace nonspecific
B150602	MPGN	Moderate granular staining along capillary walls	Subepithelial and subendothelial deposits	Trace nonspecific	Trace nonspecific
B150513	MPGN	Moderate granular staining along capillary walls and mesangium	Subepithelial, subendothelial, and mesangial zones	Trace nonspecific	Trace nonspecific
B150313	MPGN	Strong granular and chunky staining along capillary walls and mesangium	Subendothelial deposits	Trace nonspecific	Trace nonspecific
B150208	MGN	Moderate granular staining along capillary walls	Subepithelial deposits	Trace nonspecific	Trace nonspecific
B141201	MGN	Moderate-strong granular staining along capillary walls	Subepithelial deposits	Trace nonspecific	Trace nonspecific
B141113	MPGN	Strong granular and chunky staining along capillary walls and mesangium	Subendothelial deposits	Trace nonspecific	Trace nonspecific

Case	LM	IF (LLC)	TEM	Novice IHC	Trained IHC
B141008	MGN	Strong granular and chunky staining along capillary walls	Subepithelial deposits	Trace nonspecific	Trace nonspecific

FSGS = focal segmental glomerulosclerosis; IHC = immunohistochemistry; MGN = membranous glomerulonephritis; MPGN = membranoproliferative glomerulonephritis.