

Table S5

Summary of ISH in multiple tissues.

Animal description (1)						
MSKCC-WCM Accession #	16-1653-1	15-3577-1				
Sex	Female	Female				
Age	Unknown (adult)	12 months				
Strain	NSG	NSG				
Cause of death	Inclusion body nephropathy caused by MKPV	Inclusion body nephropathy caused by MKPV				
Previously reported MKPV testing (1)						
MKPV PCR on FFPE kidney tissue	Positive	Positive				
MKPV ISH on FFPE kidney tissue	Strongly positive, tubular cells, multifocal	NP				
ISH results	MKPV ISH	Mouse Ppib ISH (2)	Dapb ISH (3)	MKPV ISH	Mouse Ppib ISH	Dapb ISH
Heart	Negative	NP	NP	Negative	Positive	NP
Lungs	Negative	NP	NP	Negative	Positive	NP
Thymus	U	NP	NP	Negative	Positive	NP
Kidneys	U (4)	NP	NP	Strongly positive, tubular cells, multifocal	NP	NP
Liver	Negative	NP	NP	Negative	NP	NP
Gallbladder	Negative	NP	NP	Negative	NP	NP
Stomach	Negative	NP	NP	Negative	NP	NP
Duodenum	Negative	NP	NP	Negative	NP	NP
Jejunum	Negative	NP	NP	Negative	NP	NP
Ileum	Negative	NP	NP	Negative	NP	NP
Cecum	Mildly positive, mucosal epithelium and lamina propria, multifocal	NP	NP	Negative	NP	NP
Colon	Negative	NP	NP	U	NP	NP
Salivary glands	Negative	NP	NP	Negative	NP	NP
Uterus	Negative	Positive	NP	Negative	NP	NP
Urinary bladder	Mildly positive, urothelium multifocal; Strongly positive, casts in lumen	Positive	NP	Mildly positive, urothelium multifocal; Strongly positive, casts in lumen	NP	NP
Pancreas	Negative	NP	NP	Negative	NP	NP
Adrenals	Negative	Positive	Negative	U	NP	NP
Ovaries	Negative	Positive	Negative	Negative	NP	NP
Oviducts	Negative	Positive	Negative	Negative	NP	NP
Trachea	Negative	Positive	Negative	Negative	Positive	NP
Esophagus	Negative	Positive	Negative	Negative	Positive	NP
Thyroid	Negative	Positive	Negative	Negative	NP	NP
Skin (trunk)	Negative	Positive	Negative	U	NP	NP
Skeletal muscles	Negative	NP	NP	Negative	NP	NP
Bones (femur, tibia, sternum, vertebrae, skull)	Not interpreted (5)	NP	NP	Not interpreted (5)	NP	NP
Bone marrow (femur, tibia, sternum, vertebrae)	Not interpreted (5)	NP	NP	Not interpreted (5)	NP	NP
Stifle joint	Not interpreted (5)	NP	NP	Not interpreted (5)	NP	NP
Nerves (hind limb, spine)	Not interpreted (5)	NP	NP	Not interpreted (5)	NP	NP
Spinal cord	Not interpreted (5)	NP	NP	Not interpreted (5)	NP	NP
Oral mucosa	Not interpreted (5)	NP	NP	Not interpreted (5)	Negative (5)	Negative
Teeth	Not interpreted (5)	NP	NP	Not interpreted (5)	Negative (5)	Negative
Nasal mucosa	Not interpreted (5)	NP	NP	Not interpreted (5)	Negative (5)	Negative
Eyes	Not interpreted (5)	NP	NP	Not interpreted (5)	Negative (5)	Negative
Harderian gland	Not interpreted (5)	NP	NP	Not interpreted (5)	Negative (5)	Negative
Pituitary	Not interpreted (5)	Negative (5)	Negative	Not interpreted (5)	NP	NP
Brain	Not interpreted (5)	Negative (5)	Negative	Not interpreted (5)	Negative (5)	Negative
Ears	Not interpreted (5)	Negative (5)	Negative	Not interpreted (5)	NP	NP

Notes:

- As described in reference 9.
- Positive control probe.
- Negative control probe.
- Tissue exhausted by previous ISH staining; kidney sample from this mouse was previously found to be ISH positive as described in reference 9.
- Due to inadequate RNA preservation caused by formic acid decalcification, as shown by negative Ppib results on all decalcified tissues tested.

NSG, NOD.Cg-Prkdc^{scid} Il2rg^{tm1Wjl}/Sz; FFPE, formalin-fixed paraffin-embedded; NP, not performed; U, sample unavailable.