

## Supplementary Table S1. <sup>18</sup>F-FDG PET/CT SUV Uptake according to PET/CT

Injected	SUV-9w (SUV-max)	SUV-12w (SUV-max)
Placebo	-	-
SK-LMS-1	-	Right rear leg (3.556)
SK-LMS-1	Right rear leg (1.969)	Right rear leg (4.264)
SK-LMS-1 sh-Control	-	-
SK-LMS-1 sh-Control	-	Right rear leg (3.653)
SK-LMS-1 sh-Control	Right rear leg (3.129)	Right rear leg (3.438)
SK-LMS-1 sh-Control		Right rear leg/Head (skin) (4.188/2.763)
SK-LMS-1 sh-TJP1	-	-
SK-LMS-1 sh-TJP1	-	-
SK-LMS-1 sh-TJP1	-	Head (4.525)
SK-LMS-1 sh-TJP1	Lung (1.281)	-

## Supplementary Table S2. Primer information for RT-PCR

Gene	Sequence(5`-3`)	Genebank Accession No.
TJP1 - F	GGAGAGGTGTTCCGTGTTGT	NM_003257
TJP1 - R	GAGCGGACAAATCCTCTCTG	NM_003257
CSF1 - F	GCCCCGTTTTAACTCCGTTC	NM_000757
CSF1 - R	CGCCTCCACCTGTAGAACAA	NM_000757
GAPDH - F	GGGTGTGAACCATGAGAAGT	NM_001289745
GAPDH - R	GACTGTGGTCATGAGTCCT	NM_001289745



**Supplementary Fig. S1.** <sup>18</sup>F-FDG-PET/CT scan of LMS xenograft models. Mice (21 weeks old) were subjected to PET-CT imaging analysis for tumor detection at 12th week after transplantation of LMS cells or PBS orthotopically. PET (A) and CT (B) images from mice were arranged. Arrowheads (yellow) point out orthotopic tumor growth. L, left; R, right; M, male; F, female. The results were shown as the representative of three independent experiments.

A Role of TJP1 on LMS Progression Eun-Young Lee et al.



Supplementary Fig. S2. Immunohistochemistry of LMS tumors from animal model with antibodies against Ki67 and F4/80.



Supplementary Fig. S3. Hierarchical clustering of TCGA LMS Transcriptome.