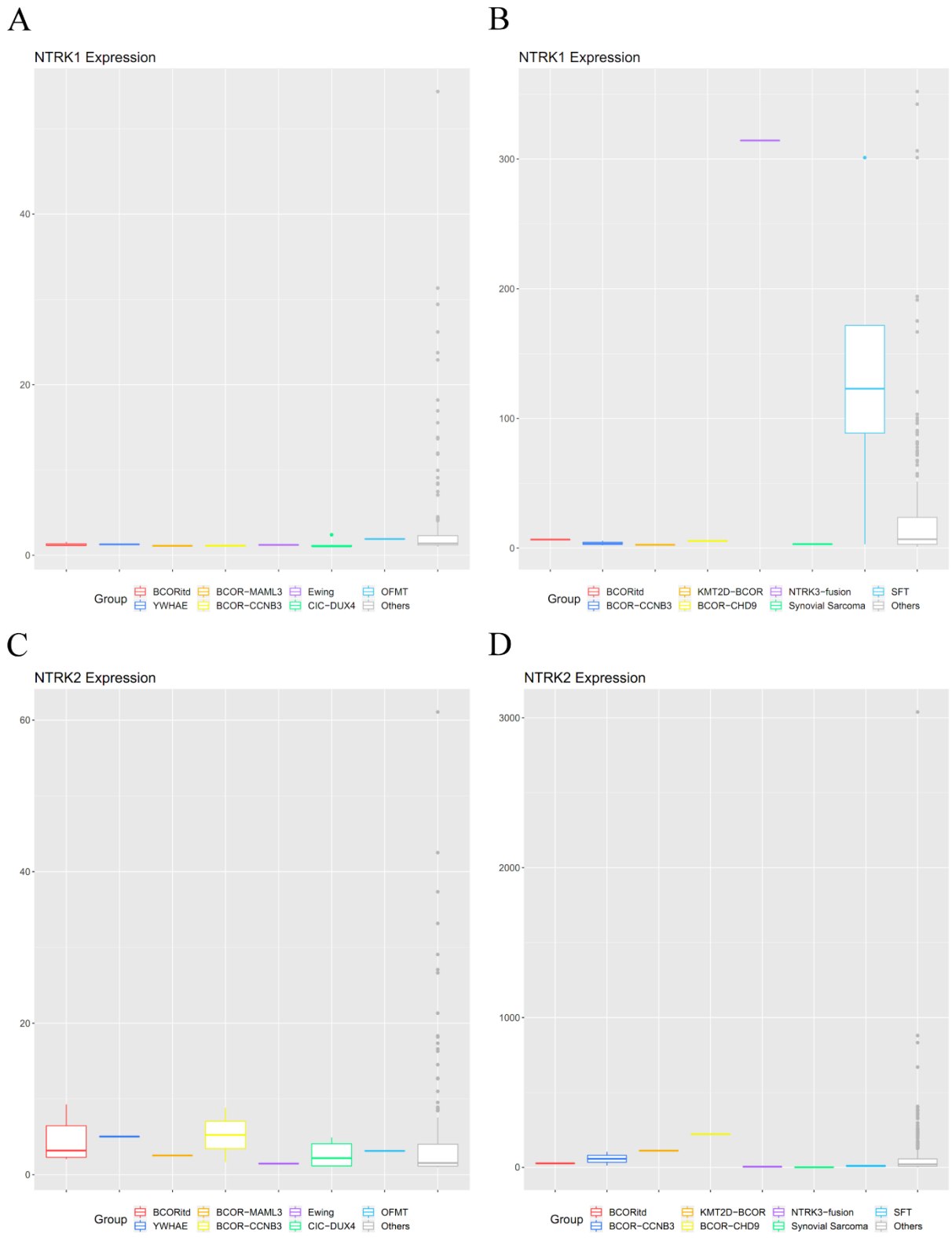
Supplem Table 1. **Immunoprofile and Molecular Findings of rare BCOR variant fusions *KMT2D-BCOR* and *BCOR-CHD9* in undifferentiated round and spindle cell sarcomas.**

Age/Sex	Site	Fusion genes (exon)*	*BCOR* FISH	*NTRK3* mRNA up-regulation	Immunohistochemistry				
					Pan-Trk	BCOR	NTRK1	H3K27me3	TLE1
38/M	scapula	*KMT2D* (39)-*BCOR* (6) *BCOR* (4)-*KMT2D* (22)	−	+	+ (95%, strong)	+	−	Loss	+
10/F	pelvic	*KMT2D* (42)-*BCOR* (4) *BCOR* (1)-*KMT2D* (29)	−	+	+ (60%, moderate)	+	−	NA	+
41/F	kidney	*BCOR* (1)-*CHD9* (2) *CHD9* (2)-*BCOR* (4)	+	+	+ (100%, strong)	−	−	Loss	NA

*The most abundant exon compositions are shown for fusion transcripts with multiple different fusion junctions. NA, not available.

Supplementary Figure 1. No *NTRK1* (A-B) or *NTRK2* (C-D) up-regulation was observed in BCOR family tumors in both platforms (A&C, whole transcriptome sequencing; B&D, targeted RNA sequencing) (expression levels in RPKM).



Supplementary Figure 2. Solitary fibrous tumors showed diffuse and strong NTRK1 immunoreactivity.