

Table 1 Details of used antibodies

Antibody	Clone	Dilution	Source
NCOA2	polyclonal	1:1600	ITK Diagnostics BV, Uithoorn, The Netherlands
STAT6	YE361	1:80	Abcam, Cambridge, UK
CD34	QBEnd/10	1:80	Immunologic, Duiven, The Netherlands
EMA	E29	1:250	DAKO, Glostrup, Denmark
SMA	1A4	1:30000	Sigma, Saint Louis, USA
S100	polyclonal	1:10000	DAKO, Glostrup, Denmark
Desmin	Clone33	1:100	Klinipath BV, Duiven, The Netherlands
Pan-CK	MNF116	1:500	DAKO, Glostrup, Denmark
Pan-CK	AE1/3	1:50	Immunologic, Duiven, The Netherlands

Table 2 Clinical data

Case	sex/age	localization	size (cm)	resection status	follow-up
1	m/46 y	knee, sc	1.6	R0	NED, 2 years
2	m/45 y	upper leg, im	4.0	R0	NED, 2.5 years
3	f/52 y	upper leg, im	3.0	R0	NED, 1 year
4	f/42 y	upper leg, sc	3.5	R0	NED, 3.5 years
5	m/62 y	upper back, sc	3.5	R0	NED, 3.5 years
6	f/56 y	knee, sf	5.0	R0	NED, 3.5 years
7	f/63 y	knee, sc	4.0	R0	NED, 4 years
8	m/67 y	upper leg, sc	4.3	R0	NED, 3 months
9	m/49y	dorsal foot	1.4	R0	NA
10	m/56y	lower leg, sc	2.2	R0	NA
11	f/48y	flank, sc	3.7	R0	NED, 10 months
12	m/61y	knee, sf	8.7	R0	NA

13	f/36y	upper leg, im	7.0	R0	NA
14	m/7y	foot	2.0	R0	NED, 4 months

M, male; f, female; y, year; sc, subcutaneous; im, intramuscular; sf, subfascial, NED, no evidence of disease; NA, not available

Table 3 Immunohistochemical results

Case	CD34	EMA	Desmin	ASMA	S100	CK	STAT6	NCOA2
1	-	f+	f+	-	nd	nd	nd	+
2	-	+	nd	-	-	-(MNF116)	nd	+
3	-	+	nd	-	nd	nd	nd	+
4	-	-	-	-	-	nd	nd	+
5	+	nd	f+	-	-	nd	nd	+
6	-	nd	-	nd	-	-(AE)	-	+
7	nd	nd	nd	-	-	nd	-	+
8	-	-	nd	-	-	nd	nd	+
9	-	f+	nd	f+	-	nd	nd	+
10	-	nd	nd	nd	-	nd	nd	nd
11	-	f+	-	f+	-	-(AE)	-	nd
12	-	nd	nd	-	nd	nd	-	nd
13	-	f+	nd	-	-	nd	-	nd
14	-	f+	-	nd	-	-(MNF116)	nd	nd
n	1/13	7/9	2/6	2/11	0/11	0/4	0/5	9/9

f, focal expression; nd, not done

Table 4 NCOA2 staining in other soft tissue tumors including mimics

Tumor type	nuclear NCOA2 expression
Intramuscular myxoma	3/4
Juxtaarticular myxoma	1/1

Odontogenic myxoma	1/1
Myxoid liposarcoma	6/6
Myxofibrosarcoma	6/6*
Cellular angiofibroma	3/3
LGFMS	2/2
Solitary fibrous tumor	10/14
Mesenchymal chondrosarcoma	1/1
Schwannoma	5/5
MPNST	2/4
GIST	5/5
Leiomyoma	6/6 (<50%)

*one case only partly positive (< 50%)

LGFMS, low-grade fibromyxoid sarcoma; MPNST, malignant peripheral nerve sheath tumor; GIST, gastrointestinal stroma tumor