Gastrointestinal mesenchymal tumor

KIT immunostaining

+ →

GIST (I)

- →

Positive desmin

yes →

Smooth muscle tumor

no →

KIT sequencing

mutation →

GIST (II)

wild-type →

PDGRFRA sequencing

mutation →

GIST (III)

wild-type →

Exclude non-GISTs by morphology

GIST (IV)