Inflammatory myofibroblastic tumor (IMT) is a mesenchymal neoplasm composed of spindle cells with myxoid matrix and lymphoplasmacytic infiltrate. It can have three microscopic patterns: hypocellular/myxoid, fascicular, and hyalinized. About 50 – 70 % of IMTs are associated with rearrangement of chromosome 2p23. In a study by Parra-Herran et al, all cases were positive for ALK by FISH. In a study by Rabban JT et al, IHC for ALK was positive in all cases of IMT, as opposed to no cases of leiomyoma, leiomyosarcoma, carcinosarcoma, endometrial stromal sarcoma, and normal uterine tissue, which were all negative. Hence, ALK status by FISH or IHC can be used to confirm the diagnosis of IMT. They may recur locally, but distant metastasis are rare.

REFERENCES