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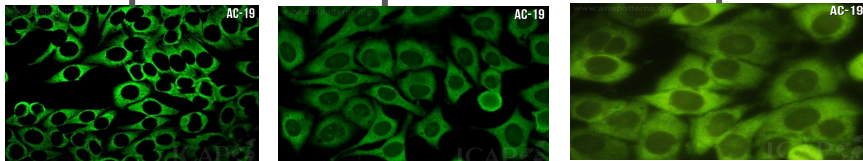
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Anti-YRS antibodies

- Firstly reported in **2005** in a patient with skin rash, muscle weakness, interstitial lung disease (ILD) and arthritis.
- Name: anti-YRS or anti-Ha antibody.

- **Family:** anti-aminoacyl-transfer RNA synthetase (ARS) antibodies
- **Target antigen:** Tyrosyl-tRNA (TyrRS).

- **Screening technique:** IIF on HEp-2 cells
IIF pattern on HEp-2 cells Fine speckled cytoplasmic fluorescence

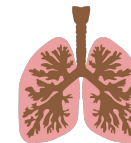


- **Confirmation technique:** Line/dot blot immunoassay
In case of suspected anti-synthetase syndrome with negativity for the most common antisynthetase antibodies, anti-YRS antibodies should be specifically tested.

- Associated diseases: Anti-YRS antibody is a myositis-specific autoantibody associated with the **anti-synthetase syndrome (ASS)**.
- It was also reported in some cases of **dermatomyositis**.
- Prevalence in idiopathic inflammatory myopathies <1%.



- Due to its rarity, little is known about anti-YRS. Small series indicate they are associated with a similar clinical profile to the other ARS antibodies
- Clinical manifestations of ASS associated with anti-YRS include ILD (62%), hypersensitivity pneumonitis, cutaneous rash, arthritis, and myositis
- ILD can be the sole clinical feature presenting as a nonspecific interstitial pneumonia (NSIP) or a usual interstitial pneumonia (UIP)



- Both proposed diagnostic criteria for ASS (**Connors' and Solomon's**) require the presence of an ARS antibody (which include the anti-YRS)

