# **Tumor Associated Macrophages**

### What are TAMs?

Tumor-associated macrophages (TAMs) are found in multiple cancer's tumor microenvironment (TME). They play a significant role in cancer cell development and survival. TAMs can reprogram the immunosuppressive microenvironment and promote tumor cell proliferation, invasion, and metastasis. It plays a dual role of "tumor promoter" and "immune suppressor." TAMs can promote tumor progression by producing mediators like IL-6, TNF-a, CCL2, CXCL8, and CXCL10, which are NF-KB mediated factors preventing apoptosis, creating tumor-supportive microenvironment. Additionally, they stimulate tumor angiogenesis and inhibit anti-tumor immune response mediated by the T cells. TAMs reduce the T cell & NK cell activity via expressing cell surface proteins or producing soluble factors like IDO, PD-L1, and TGF-B. It can also regulate Tregs to suppress T-cell activity indirectly.

## **Popular TAMs Markers**





IHC staining of human lymph node tissue using anti-CD80

#### **UM570055**



IHC staining of carcinoma of human liver tissue using anti-FOLR2

**TA808026S** 

Flow cytometry using immunostained anti-CD14 antibody of overexpression plasmid (RC203819, red) with control (blue)

**TA811528S** 



**CD73** 

IHC staining of adenocarcinoma of human endometrium tissue using anti-NT5E **TA809085S** 





IHC staining of human liver tissue using anti-CD163

**TA506380S** 

IHC staining of human pancreas tissue using anti-VEGF







### TAMs Antibody Sampler Kit

Biomarker	VEGFA	PDCD1LG2	NT5E	FOLR2	CD80	CD163	CD14
Catalog-No.	TA500289S	TA808990S	TA809085S	TA808026S	UM570055	TA506380S	TA811528S

Get a sampler antibody Kit for TAMs, contact our tech support team at techsupport@origene.com

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