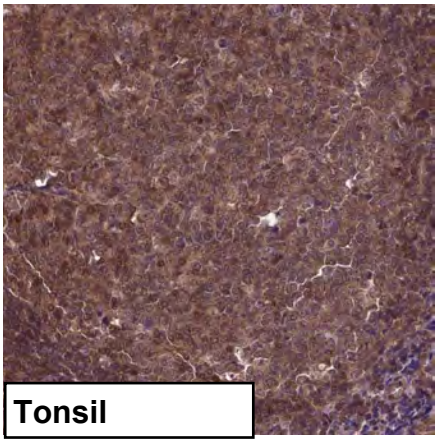
OTUB1-2

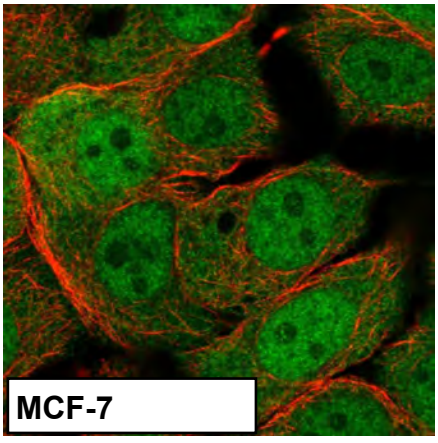
Uniprot ID: Q96FW1
Protein name: OTUB1_HUMAN
Full name: Ubiquitin thioesterase OTUB1
Protein existence: evidence at protein level
Function: Hydrolase that can specifically remove 'Lys-48'-linked conjugated ubiquitin from proteins and plays an important regulatory role at the level of protein turnover by preventing degradation.

Three antibodies: OTUB1-1, OTUB-2 and OTUB-3 were tested. OTUB1-2 was selected for full protein profiling.

OTUB1-2 (CAB072836)

OK





Immunohistochemistry

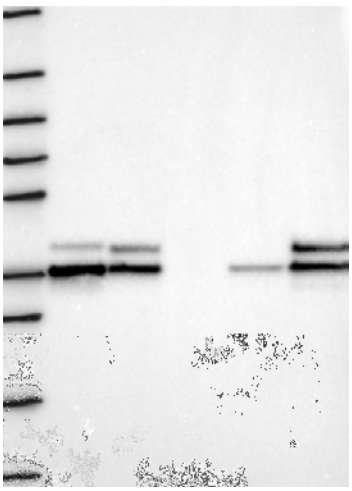
IHC protocol: HIER pH 6, Dilution 1:30000
IHC test staining: Ubiquitous cytoplasmic staining with a few cases of nuclear positivity.

IHC Annotators comments
Most normal tissues displayed moderate cytoplasmic and nuclear positivity. Respiratory epithelium of bronchus and follicle cells in ovary showed strong positivity. Liver, glial cells and parathyroid gland were weakly stained or negative.

Most cancers displayed weak to moderate cytoplasmic and nuclear positivity. Rare cervical and urothelial cancers showed strong positivity. Papillary adenocarcinomas of thyroid displayed additional membranous staining. Stomach and pancreatic cancers were weakly stained or negative.

Immunofluorescence

IF Overlay: antibody (green) and anti-tubuline (red)
IF Localization: Positivity in cytoplasm & nucleus but excluded from the nucleoli
IF Validation: The subcellular location is supported by literature



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 10
WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)
WB Target weight (kDa): 32.4, 32.3, 31.4, 31.3, 28.1, 19.4
WB Validation: Supportive (Band of predicted size in kDa (+/-20%) with additional bands present)