

## Anti-Phosphotyrosine [PY20] Standard Size Ab00294-1.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Mouse IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This is a chimeric antibody created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse F(ab)2, AbFab2™ His-Tagged, Kappa

**Clone Number:** PY20

**Alternative Name(s) of Target:** p-Tyr; Phospho-tyrosine; p-Y

**UniProt Accession Number of Target Protein:**

**Published Application(s):** IHC-FoFr, IHC-P, IP, WB, IF

**Published Species Reactivity:** Species independent

**Immunogen:** Phosphotyrosine conjugated to Keyhole limpet hemocyanin (KLH).

**Specificity:** PY20 recognizes phospho-tyrosine and phosphotyrosine containing proteins with a reported Kd of 500 nM for the original clone. Whilst phospho-Phenylalanine (Kd = 4 uM M), phospho-Serine (>100 mM) & phospho-Threonine (100 mM) are also detected, the differences in affinity make this antibody primarily phospho-tyrosine specific.

**Application Notes:** Protein phosphorylation is a key mechanism of signal transduction in Eukaryotes and Prokaryotes. PY20 has been a crucial antibody in the investigation of these processes. An excellent comparison of anti-phosphotyrosine antibodies can be found [here](#).

**Antibody First Published in:** Glenney et al. Monoclonal antibodies to phosphotyrosine. J Immunol Methods. [PMID:2452204](#)

**Note on publication:** Describes generation of anti-phosphotyrosine antibodies, including PY20

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:**

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.