

Anti-Phosphotyrosine [PY20] Standard Size Ab00294-8.1

Isotype and Format: Rat IgG2b, 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 ($K_d = 4 \mu\text{M}$), phospho-Serine ($>100 \text{ mM}$) & 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: Protein A affinity purified

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.