Anti-MMP-9, human (Hinge)

CATALOG NO.: AS-54407

BACKGROUND:

Matrix metalloproteinases belong to a family of proteases that are essential for the breakdown of extracellular matrix, thus they play an important role in apoptosis, and tumor cell growth, invasion, metastasis, as well as in angiogenesis and wound healing (1-3). All MMP's contain a common domain structure, which include a signal sequence, a propeptide, a catalytic domain and a hemopexin-like (Hpx) domain linked to the catalytic domain by a flexible hinge region (4). MMP-2 and MMP-9, the two gelatinases, contain three additional repeats of a fibronectin type II-collagen (4). Gelatinases degrade basement membrane collagen (4).

SOURCE & REACTIVITY:

Rabbit anti-MMP-9, human (Hinge) polyclonal antibody was raised against a synthetic peptide corresponding to the hinge region of human MMP-9. This epitope affinity purified rabbit polyclonal antibody reacts specifically with MMP-9. Western blot, using A431 whole cell lysate, shows a major immunoreactive band at 65kDa along with a faint band at approximately 92kDa.

APPLICATION:

The following concentration ranges are recommended starting points for this product.

WB: 0.5 to 2 µg/ml

This product is for in vitro research purposes only.

STORAGE:

This polyclonal antibody is supplied as an epitope affinity purified rabbit IgG, 50 µg in 250 µl of 1 x PBS (pH 7.4) containing 0.05% NaN_3. Store at 2-8 ˚C for up to one year. Avoid repeated freezing and thawing.

RELATED PRODUCT

Anti-MMP9 (Hinge), Catalog No. **53678**

REFERENCES:

1. Woessner, JF. *FASEB J.* 1991; 5:2145-54.
2. Ito, A, et al. *J Biol Chem.* 1996. 271:14657-60.
3. Fowlkes, JL, et al. *J Biol Chem.* 1995. 270:27481-8.
4. Itoh, Y and Nagase, H. *Essays in Biochemistry*. 2002. 38:21-36.