MATN3 Rabbit pAb

CatalogNo: YN1944

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ELISA

MW
- 53kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein
Specificity	MATN3 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	MATN3

Protein Name Matrilin-3

Organism	Gene ID	UniProt ID
Human	4148;	O15232;
Mouse		O35701;

Cellular Localization Secreted .

Tissue specificity Expressed only in cartilaginous tissues, such as vertebrae, ribs and shoulders.

Function Disease:Defects in MATN3 are the cause of multiple epiphyseal dysplasia type 5 (EDM5) [MIM:607078]. EDM is a generalized skeletal dysplasia associated with significant morbidity. Joint pain, joint deformity, waddling gait, and short stature are the main clinical signs and symptoms. EDM is broadly categorized into the more severe Fairbank and the milder Ribbing types. EDM5 is relatively mild and clinically variable. It is primarily characterized by delayed and irregular ossification of the epiphyses and early-onset osteoarthritis.,Disease:Defects in MATN3 are the cause of spondyloepimetaphyseal dysplasia bowed-legs type (SEMD bowed-legs type) [MIM:608728]; also known as matrilin-3 related SEMD. Affected individuals show disproportionate early-onset dwarfism, bowing of the lower limbs, lumbar lordosis and normal hands. Skeletal abnormalities include short, wide and stocky long bones with severe epiphyseal and metaphyseal changes, hypoplastic iliac bones and flat, ovoid vertebral bodies. SEMD bowed-legs type inheritance is autosomal recessive.,Disease:Genetic variations in MATN3 are associated with osteoarthritis susceptibility type 2 (OS2) [MIM:140600]; also called osteoarthritis of distal interphalangeal joints (OADIP) or hand osteoarthritis (HOA). In the hand, osteoarthritis can develop in the distal interphalangeal and the first carpometacarpal (base of thumb) and proximal interphalangeal joints. Patients with osteoarthritis may have one, a few, or all of these sites affected.,Function:Major component of the extracellular matrix of cartilage and may play a role in the formation of extracellular filamentous networks.,similarity:Contains 1 VWFA domain.,similarity:Contains 4 EGF-like domains.,subunit:Can form homooligomers (monomers, dimers, trimers and tetramers) and heterooligomers with matrilin-1.,tissue specificity:Expressed only in cartilaginous tissues, such as vertebrae, ribs and shoulders.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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